

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 33 Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Miles recorded.	Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.				
1887.		°		Inches.	°	°		°	°	Inches.	°	%				Inches.	
Jan.	16th	128.2	9.5	30.008	64.5	72.9	15.6	57.3	59.0	0.430	54.7	72	NNW and N ...	81	Nil	Chiefly clear, p.	
"	17th	126.6	9.9	29.985	61.9	71.9	19.0	52.9	56.0	.375	51.0	69	NNE and W by S ...	66	"	Clear, p.	
"	18th	128.7	9.9	.945	62.0	72.4	19.7	52.7	55.9	.368	50.5	68	NW by W, and Variable.	74	"	Clear, p.	
"	19th	130.3	10.0	.901	63.7	76.1	23.8	52.3	58.6	.434	55.0	74	NNE, and Variable	69	"	Clear, p.	
"	20th	139.7	10.0	.848	67.5	78.1	20.6	57.5	62.7	.509	59.4	76	SSE, SSW and Variable.	139	"	Partially cloudy, p.	
"	21st	110.6	2.0	.845	63.7	69.0	8.7	60.3	61.9	.530	60.6	90	NNE ...	114	0.23	Cloudy, o, g, d, p.	
"	22nd	132.5	5.4	.861	62.6	69.1	11.2	57.9	58.2	.430	54.7	77	NNE and NNW ...	123	Nil	Chiefly cloudy, o, g.	

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground. The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office. The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula. The directions and the movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground.

☁ dew, o overcast, g gloomy, d drizzling rain, p passing temporary showers.

*Meteorological Reporter to the Govt. of India.*

METEOROLOGICAL OFFICE, INDIA ;  
Calcutta, the 24th January 1887.

## MEMORANDUM.

THE table annexed to this memorandum furnishes the following particulars in connection with the mortuary statistics of the districts in Bengal for the month of November 1886 :—

1. That the deaths of 177,011 persons were registered out of a population of 66,163,884 in these districts, representing an annual death-rate of 32·04 per 1,000 against 25·20 per 1,000 in the preceding month, and 29·76 per 1,000 during the corresponding month of the past year, indicating, as compared with both the periods, a considerable advance in the registration of the events.

2. That the highest casualty-rates were returned from the following districts :—

Districts.	Ratio per mille.	Districts.	Ratio per mille.
Shahabad ...	79·20	Pubna ...	36·00
Julpaiguri ...	57·48	Murshidabad ...	35·76
Monghyr ...	56·76	Balasore ...	35·40
Rungpore ...	48·48	Serampore ...	35·04
Gya ...	45·00	Patna ...	34·44
Backergunge ...	44·76	Chumparan ...	33·84
Nuddea ...	43·56	Puri ...	33·84
Bhagulpore ...	43·56	Purneah ...	33·24
Dinajpore ...	40·08	24-Pergunnahs ...	31·68
Rajshahye ...	39·36	Hughli ...	31·32
Bogra ...	36·96	Howrah ...	30·72
Khulna ...	36·60	Dacca ...	30·12

3. That, in comparison with the results of the corresponding month of the past year, the mortality from fever had increased to a noticeable extent, the death-rates from small-pox, bowel-complaints and injury exhibited no variations whatever, and there were no marked differences in fatal results from cholera and Other Causes, *vide* figures given below :—

	Ratio per mille during—	
	November 1886.	November 1885.
Cholera ...	2·88	2·16
Small-pox ...	·01	·01
Fever ...	24·00	22·68
Bowel-complaints ...	·96	·96
Injury ...	·24	·24
Other causes ...	3·72	3·36

4. That while the casualties from small-pox, bowel-complaints and injury were nowhere large, cholera, fever and the maladies returned under the head of "Other causes" caused the highest mortality in the following districts :—

Cholera.	Ratio per mille.	Fever.	Ratio per mille.	Other causes.	Ratio per mille.
Julpaiguri ...	13·44	Shahabad ...	61·42	Puri ...	14·52
Shahabad ...	11·54	Monghyr ...	48·36	Sarun ...	11·52
Poori ...	9·12	Julpaiguri ...	41·88	Backergunge ...	10·68
Rungpore ...	8·00	Rajshahye ...	37·68		
Serampore ...	6·96	Dinajpore ...	36·84		
Gya ...	6·36	Rungpore ...	36·48		
24-Pergunnahs ...	5·88	Nuddea ...	34·20		
Nuddea ...	5·28	Pubna ...	33·96		
Purneah ...	4·92	Bhagulpore ...	33·60		
Bogra ...	4·44	Backergunge ...	33·12		
Howrah ...	4·32	Gya ...	32·64		
Patna ...	4·32	Khulna ...	30·60		
Balasore ...	4·08	Bogra ...	29·40		
Mozufferpore ...	3·84	Murshidabad ...	29·16		
Cuttack ...	3·84	Chumparan ...	27·72		
Murshidabad ...	3·36	Purneah ...	27·48		
Midnapore ...	3·24	Jessore ...	26·40		
Hughli ...	2·76	Maldah ...	22·56		
Sarun ...	2·52	Hughli ...	22·20		
Bhagulpore ...	2·16	Patna ...	21·84		
Burdwan ...	2·04	Dacca ...	20·64		
Dacca ...	2·04	Burdwan ...	20·04		
Durbhanga ...	2·04				

5. That in relation to Sex, Class and Age, the death-rates during the month under notice stood as follows :—

According to Sex.	Ratio per mille.	According to Class.	Ratio per mille.	According to Age.	Ratio per mille.
Males ...	33·72	Christians ...	16·32	Under 1 year	178·56
Females ...	30·36	Hindus ...	33·00	1 and under 5 years ...	39·36
Ratio of male deaths to every 100 female deaths ...	109	Manomedans ...	31·32	5 " " 10 " ...	19·32
		Budhists ...	14·04	10 " " 15 " ...	15·24
		Other classes ...	18·48	15 " " 20 " ...	20·52
				20 " " 30 " ...	22·20
				30 " " 40 " ...	23·40
				40 " " 50 " ...	29·64
				50 " " 60 " ...	44·16
				60 years and upwards ...	78·00

R. LIDDERDALE, M.D., Deputy Surgeon-General,  
Sanitary Commissioner for Bengal.

The 24th January 1887.

*Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of November 1886.*

DIVISIONS.	DISTRICTS.	POPULATION.		DEATHS FROM—										DISEASE.	MORTALITY ACCORDING TO—					COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.	RATIO OF MALE DEATHS TO EVERY 100 FEMALE DEATHS.		
		Males.	Females.	Total.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population in the corresponding month of the previous year.	Males.		Females.	Ratio of deaths per 1,000 of population in the corresponding month of the previous year.	Males.	Females.									
BENGALEE DIVISION.	Burdwan	668,295	723,438	1,391,733	297	.....	1,738	240	76	1	455	3,602	2,041	.....	20,100	7,700	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Banar	507,136	534,010	1,041,146	76	.....	1,404	41	13	13	418	1,782	1,006	.....	18,000	7,600	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Ranchpur	381,563	413,805	795,368	95	.....	1,267	18	6	6	418	1,004	1,006	.....	19,000	7,600	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Midnapore	1,272,370	2,515,255	3,787,625	635	.....	4,073	321	56	56	774	5,885	3,241	.....	19,000	7,600	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Hughli	1,515,055	347,885	1,862,940	137	.....	1,929	149	20	20	174	3,112	2,716	.....	22,200	8,700	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Scrapore	177,389	351,955	529,344	207	.....	554	91	9	9	601	1,036	645	.....	18,400	3,900	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Total (Hughli including Scrapore)	490,661	1,015,065	1,505,726	374	.....	1,738	240	76	76	343	2,761	429	.....	21,000	2,700	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
BENGAL DIVISION.	Howrah	316,179	318,592	634,771	295	.....	807	298	20	20	697	1,021	432	.....	13,200	5,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	24-Vergunahs	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Jessore	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Murshidabad	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Khulna	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Bahadurpur	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
	Bangalore	895,429	894,429	1,789,858	933	.....	2,956	353	54	54	1,037	4,045	578	.....	18,200	7,000	12	372	28,721	18,124	23,432	1,540	1,543	97,725	95,490	160	100
CHITTA GONG.	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
CHITTA GONG.	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
CHITTA GONG.	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
CHITTA GONG.	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
CHITTA GONG.	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030,263	2,127,964	1,593	.....	2,077	1,031	1,031	1,031	1,031	1,031	1,031	.....	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031	1,031
	Chittagong	1,097,701	1,030																								







# MEMORANDUM.

The birth and death returns of the principal Municipalities in Bengal for the week ending 8th January 1887 furnish the following results:—

1. That the birth-rate in these Municipalities amounted to 22.1 per 1,000 of population against very nearly the same proportion, viz. 22.5 per 1,000, during the preceding week ending 1st January, and the death-rate to 31.1 against 33.8 per 1,000, showing a large diminution in the registration of the latter events.

2. That the following Municipalities returned the highest proportions of births and deaths:—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Comillah	...	57.8	Purneah	...	76.2
Serampore	...	45.1	Serampore	...	57.0
Burdwan	...	38.1	Suburbs of Calcutta	...	49.8
Durbhanga	...	37.0	Beauleah	...	44.6
Bhagulpore	...	36.2	Hughli	...	43.0
			Durbhanga	...	40.9
			Puri	...	39.9
			Bali	...	38.6
			Burdwan	...	38.1
			Darjiling	...	32.6
			Comillah	...	30.8

3. That, as compared with the results of the preceding week, there was a diminution of mortality, to a more or less extent, from all diseases, excepting small-pox and injury, the death-rates from which presented no variation:—

			Ratio per mille during the weeks ending—	
			8th January 1887.	1st January 1887.
Cholera	...	...	3.0	4.0
Small-pox	...	...	.1	.1
Fever	...	...	13.0	13.7
Bowel-complaints	...	...	5.7	6.3
Injury	...	...	.2	.2
Other causes	...	...	9.1	9.4

4. That while the mortality from small-pox and injury was nowhere high, the Municipalities named below were reported to have returned the highest death-rates from the rest of the diseases indicated in the foregoing table:—

Cholera.		Fever.		Bowel-complaints.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Purneah	17.3	Beauleah	39.4	Serampore	15.7	Durbhanga	26.0
Naraingunge	16.6	Purneah	31.1	Puri	14.7	Purneah	17.3
Santipore	14.6	Hughli	25.5	Suburbs of Calcutta	11.6	Bhagulpore	15.4
Dacca	5.8	Serampore	25.5			Serampore	13.7
Howrah	5.2	Burdwan	24.9			Suburbs of Calcutta	12.2
Suburbs of Calcutta	4.7	Bali	21.1				
Patna	2.3	Suburbs of Calcutta	20.9				

5. That the death-rates according to Sex, Class and Age stood as shown below:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	30.8	Christians	39.1	Under 1 year	221.2
Females	31.4	Hindus	29.5	1 and under 5 years	40.3
Ratio of male deaths to every 100 female deaths	111	Mahomedans	34.6	5 " " 10 " "	13.5
		Budhists	24.2	10 " " 15 " "	7.7
		Other classes	36.4	15 " " 20 " "	13.6
				20 " " 30 " "	19.6
				30 " " 40 " "	24.4
				40 " " 50 " "	25.9
				50 " " 60 " "	37.1
				60 years and upwards	92.4

R. LIDDERDALE, M.D., Deputy Surgeon-General,  
Sanitary Commissioner for Bengal.

The 24th January 1887.





DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—										DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										RATIO PER 1,000 OF POPULATION PER ANNUM.																			
		Class.										Class.										Class.										Class.										Class.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.																				
Burdwan	Burdwan	16	351	456	...	...	...	...	...	...	2	3	...	...	...	1	3	2	4	3	4	236.4	60.1	...	41.3	16.6	19.7	15.1	47.1	63.5	140.4																				
Midnapore	Midnapore	12	241	216	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	198.9																			
Hughli	Hughli and Chinsurah	22	361	762	...	...	...	...	...	...	5	6	2	...	1	3	2	4	3	6	7	275.7	117.0	...	...	17.5	20.3	21.2	28.1	40.4	47.7	144.5																			
Serampore	Serampore	28	535	1663	...	...	...	...	...	...	4	3	1	1	3	2	3	4	3	5	2	283.0	86.4	...	23.4	71.5	19.3	31.4	61.6	81.5	186.1	...																			
Utterpara	Utterpara	8	293	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	400.0																			
Howrah	Howrah	35	267	355	...	...	...	...	...	...	8	7	...	2	...	6	9	6	3	9	2	271.4	65.7	...	15.8	...	13.8	24.3	25.5	28.4	124.8	...																			
Bali	Bali	8	31.0	119.0	...	...	...	...	...	...	3	1	2	...	...	3	1	...	1	...	...	430.9	55.1	...	...	...	46.6	18.6	...	40.6	...	...																			
Suburbs of Calcutta	Suburbs of Calcutta	7	89.9	49.2	49.5	...	...	...	...	...	36	22	10	5	10	35	38	25	29	39	...	302.9	70.8	...	14.5	25.9	32.2	38.4	61.3	142.4	...	...																			
Kishinagar	Kishinagar	4	111	6.3	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	209.7	...	...	...	25.3	21.6	...	...	...	...	...																			
Ran-glat	Ran-glat	1	71	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	231.2	...	...	...	...	...	...	...	...	...	...																			
Santipore	Santipore	6	151	34.9	...	...	...	...	...	...	3	1	...	...	...	1	3	...	...	...	...	184.6	18.0	...	...	...	10.6	36.0	...	...	...	63.0																			
Jessore	Jessore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...																			
Ranpore Beaulah	Ranpore Beaulah	9	47.2	42.4	...	...	...	...	...	...	3	2	2	...	2	1	1	1	1	4	...	384.3	73.3	...	...	62.6	12.5	...	14.4	21.2	41.9	216.9																			
Darjiling	Darjiling	4	45.3	...	...	...	...	...	...	...	1	...	...	...	...	1	2	1	...	...	...	429.7	...	...	...	...	...	...	...	...	...	...																			
Dacca	Dacca	20	25.8	31.7	...	...	...	...	...	...	3	2	1	...	4	12	7	6	1	8	...	82.2	14.1	...	...	28.5	40.7	31.2	37.3	11.0	74.8	...																			
Naraingunge	Naraingunge	...	...	50.8	...	...	...	...	...	...	2	...	...	...	1	1	1	1	...	...	...	372.6	...	...	...	49.8	19.6	24.3	37.3	...	...	...																			
Chittagong	Chittagong	1	35.8	17.0	...	...	...	...	...	...	1	...	...	...	...	1	2	2	1	2	...	92.4	...	...	...	...	...	...	...	...	...	...																			
Comillah	Comillah	5	43.7	21.1	...	...	...	...	...	...	3	1	...	...	...	...	1	2	...	1	...	525.3	39.8	...	...	...	...	...	...	...	...	...																			
Patna City	Patna City	53	23.2	21.6	...	...	...	...	...	...	13	7	1	1	2	7	9	9	6	15	...	156.8	24.9	...	...	9.3	12.6	20.1	24.9	22.1	56.5	...																			
Gya	Gya	30	26.0	29.1	...	...	...	...	...	...	7	5	3	1	...	4	5	2	2	10	...	203.4	40.0	...	...	...	...	...	...	...	...	...																			
Arrah	Arrah	1	1.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...																			
Mounseerpore	Mounseerpore	7	12.1	29.8	...	...	...	...	...	...	3	1	1	1	...	3	2	...	1	...	...	163.3	12.9	...	...	...	...	...	...	...	...	...																			
Durbhanga	Durbhanga	38	40.8	41.4	...	...	...	...	...	...	11	13	6	...	...	3	3	1	3	13	...	367.4	88.8	...	...	...	...	...	...	...	...	...																			
Saran	Saran	6	7.6	13.0	...	...	...	...	...	...	1	2	...	...	...	1	...	...	1	3	...	36.0	19.6	...	...	...	...	...	...	...	...	...																			
Bhagulpore	Bhagulpore	1	134.7	39.1	18.1	...	...	...	...	...	10	5	1	...	...	1	2	2	3	6	...	435.5	45.0	...	...	...	...	...	...	...	...	...																			
Monghyr	Monghyr	16	18.6	29.0	...	...	...	...	...	...	5	2	2	...	1	2	2	1	4	4	...	175.1	16.7	...	...	...	...	...	...	...	...	...																			
Purneah	Purneah	9	51.0	118.7	...	...	...	...	...	...	1	1	...	...	...	5	3	3	3	2	...	183.7	45.0	...	...	...	...	...	...	...	...	...																			
Puri	Puri	19	40.3	...	...	...	...	...	...	...	...	...	...	...	...	1	5	5	8	...	...	...	...	...	...	...	...	...	...	...	...	...																			
Total	Total	9	519	261	1	1	39.1	29.5	34.6	24.2	36.4	129	85	34	17	26	102	107	80	68	143	221.2	40.3	...	77	13.6	19.6	24.4	25.9	37.1	92.4	...																			

R. LIDDERDALE, M.D., Deputy Surgeon-General,  
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,  
The 24th January 1887.





## CIRCULAR AND EASTERN CANALS.

*Approximate return of traffic for the week ending Saturday, the 22nd January 1887, compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 22ND JANUARY 1887.			WEEK ENDING SATURDAY, THE 23RD JANUARY 1886.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1 543	2,91,570	5,579	2,024	3,84,780	6,359
Jute ...	123	81,950	1,373	105	65,252	1,221
Firewood ...	120	82,900	1,165	198	92,925	1,298
Other articles ...	844	2,15,960	3,865	1,144	2,93,773	3,678
Total ...	2,630	6,72,380	11,982	3,471	8,36,730	12,556

## Statement of Fluctuation of Goods Traffic on the Northern Bengal State Railway for the month of September 1886.

*Abstract of the principal commodities carried over the line during the month of September 1886, as compared with the same month of the previous year.*

STAPLES.	1885.		1886.		Total in 1885.	Total in 1886.	Increase.	Decrease.
	Up.	Down.	Up.	Down.				
	Tons.	Tons.	Tons.	Tons.				
Coal ...	267'26	.....	2,608'64	304'00	267'26	2,912'04	2,644'78	.....
Cotton ...	.....	.....	.....	.....	.....	.....	.....	.....
Cotton piece-goods ...	213'11	1'10	940'15	3'16	214'30	943'31	729'01	.....
Ginger ...	.....	15'80	.....	.....	.....	.....	.....	.....
Gumv-paws ...	43'68	72'08	14'51	201'03	115'76	215'54	99'78	.....
Grain and pulses other than rice and paddy	149'22	53'24	306'97	210'23	202'78	517'25	314'47	.....
Hides ...	5'32	29'50	5'18	65'24	34'82	70'42	35'60	.....
Intoxicating drugs other than opium ...	1'03	3'26	1'94	1'94	4'29	3'88	.....	.....
Jute ...	4'23	1,329'23	.....	5,950'07	1,333'51	5,950'31	4,616'80	.....
Liquor ...	7'06	.....	25'71	.....	7'06	25'71	18'65	.....
Miscellaneous ...	393'97	52'24	1,641'33	151'42	451'31	1,792'75	1,341'54	.....
Metals ...	89'57	16'98	15'24	.....	100'55	15'24	.....	85'31
Oil ...	65'83	6'28	169'80	1'15	72'11	170'95	98'84	.....
Opium ...	.....	.....	.....	.....	.....	.....	.....	.....
Paddy ...	.....	1,938'90	4'04	453'38	1,938'90	457'42	.....	1,481'48
Railway materials ...	3'98	113'29	155'43	158'96	117'27	814'39	107'12	.....
Rice ...	213'99	1,381'96	184'29	1,532'07	1,595'95	1,718'36	122'41	.....
Salt ...	883'32	66'12	1,785'74	3'93	949'44	1,789'67	840'23	.....
Seed ...	44'08	75'01	20'31	41'25	119'09	61'56	.....	57'53
Sugar ...	48'82	2'71	102'25	7'20	51'53	109'55	58'02	.....
Twist ...	24'98	.....	37'50	.....	24'98	37'50	12'52	.....
Tea ...	.....	608'67	.....	1,282'69	608'67	1,282'69	674'02	.....
Tobacco ...	20'92	448'53	12'71	1,313'49	460'45	1,326'20	856'75	.....
Timber ...	3'67	107'05	10'98	47'24	110'72	58'22	.....	52'50
Total ...	2,489'34	6,316'20	8,044'63	11,936'53	8,805'54	20,001'16	.....	.....

## GENERAL REMARKS AND EXPLANATIONS.

From the statement given above, it will be seen that there have been increased despatches under 18 out of the 24 heads into which the traffic of the line is classed compared with the corresponding period of 1885, the net increase being 11,195 62 tons, or 127 per cent. This result is expected when it is borne in mind that there was stoppage of through booking of goods with the Eastern Bengal State Railway for 21 days (10th to 30th) in September 1885, consequent upon breaks on that line caused by floods. A fair comparison between the two periods cannot therefore be made.

Excepting intoxicating drugs, under which there has been a trifling falling off, the decreases are only in metals, paddy, seeds and timber. The despatches under the last three heads are almost exclusively local, and therefore little affected by interruption in through booking. A considerable traffic in metal is also done locally, but the present decrease appears to be mainly due to large consignments of tea lead and iron building materials having passed over the line during the first week of September 1885, when there was no interruption in through booking.

## Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of October 1886 as compared with the same month of the previous year.

STAPLES.	1886.		1885.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1886.	1885.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Betelnuts ... ..	24	117	25	2	141	27	114	.....
Coal and coke ... ..	3,492	1,182	2,769	1,222	4,674	3,991	683	.....
Cotton, raw ... ..	12	42	36	49	54	83	.....	31
Cotton, manufactured—								
1.—Twist and yarn (European) ... ..	1,345	210	1,019	172	1,555	1,191	364	.....
2.—Ditto do. (Indian) ... ..								
3.—Piece-goods (European) ... ..								
4.—Ditto do. (Indian) ... ..								
Fibrous Products—								
1.—Jute (screwed) ... ..	.....	4,413	.....	2,960	4,413	2,960	1,453	.....
2.—Jute (unscrewed) ... ..	.....	29,391	.....	25,067	29,391	25,067	4,324	.....
2.—Jute manufactured (gunny-bags and cloths) ... ..	60	1,088	51	625	1,148	676	472	.....
Grain and pulse—								
2.—Grain and pulse ... ..	317	610	329	436	927	765	162	.....
4.—Rice, husked ... ..	311	1,775	470	2,798	2,086	3,268	.....	1,182
Hides and skins—								
1.—Hides of cattle ... ..	17	886	5	232	903	237	666	.....
2.—Skins of sheep, goats and small animals								
Lac—								
1.—Lime ... ..	22	22	.....	.....	44	.....	44	.....
2.—Surkey ... ..	.....	6	.....	.....	6	.....	6	.....
3.—Bones ... ..	.....	1	.....	.....	1	.....	1	.....
Leather—								
Bricks ... ..	.....	14	.....	.....	14	.....	14	.....
Metals and manufactures of—								
1.—Brass and copper ... ..	494	33	520	15	527	535	.....	8
2.—Iron ... ..								
3.—Other metals ... ..								
Oils ... ..	316	15	222	12	331	234	97	.....
Provisions—								
1.—Ghee ... ..	131	251	281	232	382	513	.....	131
2.—Other kinds ... ..								
Railway materials ... ..	1,078	819	866	803	1,897	1,699	228	.....
Salt ... ..	1,450	4	2,328	10	1,454	2,338	.....	884
Seeds—								
1.—Oilseeds ... ..	174	39	108	438	213	546	.....	333
a.—Linsed ... ..								
b.—Mustard and rape ... ..								
c.—Til or kingly ... ..								
d.—Other oil seeds ... ..								
Sugar—								
1.—Refined ... ..	226	187	180	262	413	442	.....	29
2.—Unrefined ... ..								
Tea—								
1.—Indian ... ..	.....	1,949	.....	1,290	1,949	1,290	659	.....
2.—Foreign ... ..								
Tobacco ... ..	40	906	32	1,025	946	1,057	.....	111
Wood—								
1.—Timber ... ..	104	25	1,679	20	129	1,699	.....	1,570
2.—Firewood ... ..	1,309	37	.....	.....	1,346	.....	1,346	.....
Hay, straw, &c. ... ..	312	.....	199	.....	312	199	113	.....
All other articles of merchandise—								
1.—Unmanufactured ... ..	1,047	917	1,724	756	1,904	2,480	.....	516
2.—Manufactured ... ..								
Total ... ..	12,281	44,939	12,843	38,426	57,220	51,269	10,746	4,796

## INCREASES.

The gross weight of traffic carried during the month under review stands at 57,269 tons, being a net increase as compared with the corresponding month of the previous year of 5,951 tons.

This result, considering that the through-booking of traffic was suspended during the first week of the month, owing to the floods, may be looked on as fairly satisfactory. The principal increases are shown under the following heads:—

Coal and coke ... .. 683 tons.  
Increased despatches to the Northern Bengal State Railway and Darjeeling-Himalayan Railway accounts for the extra weight lifted under this head.  
Piece-goods ... .. 364 tons.  
Piece-goods continue to be sent forward in considerable quantities to supply the bazar demands of the eastern districts.  
Jute ... .. 6,249 tons.  
A slight advance in prices at home led to heavy shipments in bales during the month.  
Hides ... .. 666 tons.  
This increase is almost entirely in "Dacca." A sudden increase of from Re. 1 to Rs. 2 in the Calcutta market for Dacca hides led to a rush being made to get them down for disposal at the higher rates offering.  
Tea ... .. 659 tons.  
The price realised at the sales held in Calcutta just before the Poojahs led to managers of gardens making a push to get all they could down for the first sale after the holidays, in the hope that the slightly better rates obtained at the sale on 29th September might continue.  
Firewood ... .. 1,346 tons.  
The stock at the Balliaghatta Depot had been allowed to run low in consequence of a rumour having been spread that the Railway was about to take over the land on which the wood is allowed to be stored.

## DECREASES.

The principal decreases are—  
Rice ... .. 1,182 tons.  
During the corresponding month of last year, there was a good deal of speculation in this staple owing to the reports of a short crop, which, no doubt, led to the extra weight, as compared with the current month, being sent forward. This is the only explanation forthcoming, as there has been a good demand in the Calcutta market during the month at about the same rates as were ruling during the month of October 1885.  
Salt ... .. 884 tons.  
The ruling price for this staple during September, and at the beginning of the month under review, was Rs. 79 to Rs. 80 per 100 maunds, at which rate purchasers held off. About the middle of the month, however, prices declined to Rs. 73, at which rate heavy purchases were made.

Seeds ... .. 333 tons.  
The transactions during the month have almost been of a retail character; prices at the port have steadily declined, and this, together with the increasing firmness in freights and exchange, has, for the time being, almost put a stop to all business in seeds.

CALCUTTA, the 18th December 1886.

F. P. QUINLAN, Examiner of Accounts.



## Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of October 1886, as compared with the same month of the previous year.*

STAPLES.	1886.		1885.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1886.	1885.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Betelnuts ... ..	...	78	...	2	78	2	76	...
Coal and coke ... ..	561	...	133	3	561	138	423	...
Cotton, raw ... ..	3	1	...	...	4	...	4	...
Cotton, manufactured—								
1.—Twist and yarn (European) ... ..	...	...	...	...	...	...	...	...
2.—Ditto do. (Indian) ... ..	...	...	...	...	...	...	...	...
3.—Piece-goods (European) ... ..	...	...	...	...	...	...	...	...
4.—Ditto do. (Indian) ... ..	...	...	...	...	...	...	...	...
Fibrous products								
1.—Jute (screwed) ... ..	...	53	...	15	53	15	38	...
(unscrowed) ... ..	...	638	7	189	638	187	471	...
2.—Jute manufactured (gunny-bags and cloths) ... ..	2	1	4	1	3	5	...	2
Grain and pulse—								
2.—Grain and pulse ... ..	152	5	125	...	157	125	32	...
4.—Rice, husked ... ..	8	99	21	9	107	39	77	...
Hides and skins—								
1.—Hides of cattle ... ..	...	23	...	28	23	28	...	6
2.—Skins of sheep, goats, and small animals	...	...	...	...	...	...	...	...
Metals and manufactures of—								
1.—Brass and copper ... ..	...	...	...	...	...	...	...	...
2.—Iron ... ..	12	6	46	2	18	48	...	30
3.—Other metals ... ..	...	...	...	...	...	...	...	...
Ons ... ..	65	...	29	...	65	29	36	...
Provisions—								
1.—Ghee ... ..	12	18	19	...	30	19	11	...
2.—Other kinds ... ..	28	37	8	27	65	35	30	...
Railway materials ... ..	97	...	42	7	97	49	48	...
Salt ... ..	...	...	...	...	...	...	...	...
Seeds—								
1.—Oilseeds ... ..	...	...	...	...	...	...	...	...
a.—Linseed ... ..	...	...	...	...	...	...	...	...
b.—Mustard and rape ... ..	...	...	...	...	...	...	...	...
c.—Til or gingelly ... ..	...	...	...	...	...	...	...	...
d.—Other oil seeds ... ..	...	...	...	...	...	...	...	...
Sugar—								
1.—Refined ... ..	7	92	16	192	99	208	...	109
2.—Unrefined ... ..	...	...	...	...	...	...	...	...
Tobacco ... ..	18	23	17	8	41	25	16	...
Wood—								
1.—Timber ... ..	13	...	6	...	13	6	7	...
Lime ... ..	2	...	...	...	2	...	...	...
All other articles of merchandise—								
1.—Unmanufactured ... ..	...	...	...	...	...	...	...	...
2.—Manufactured ... ..	117	113	932	40	230	972	...	742
Total ... ..	1,194	1,207	1,534	526	2,401	2,060	1,271	930

## INCREASES.

2,401 tons is the total weight lifted during the month, which gives an increase of 341 tons over the weight carried for October 1885.

The difference would no doubt have been larger had not the line been closed for through traffic for 22 days during the month under review.

The principal increases are under the following heads:—

Betelnuts ... .. 76 tons.

This increase is, I think, a sign that the railway is gradually getting the preference over river despatch for this and other high-priced staples.

Coal and coke ... .. 423 tons.

A consignment of coal was despatched during the month to Khoolna for the use of the I. G. S. N. Co's. steamers.

Jute ... .. 509 tons.

Jute from the Madanpur and Magura districts is still being sent forward in considerable quantities, and, but for the unfortunate check given to the traffic by the stoppage of through booking, the increase would probably have been much larger.

Rice ... .. 77 tons.

There has been a good demand in the Calcutta market for this staple at fairly profitable rates during the whole of the month, and the wonder is that a larger quantity has not found its way down over the line.

## DECREASES.

The following are the principal decreases:—

Metals ... .. 30 tons.

The suspension of through booking for the greater part of the month is no doubt the cause of the falling off under this head, stopping, as it did, the despatch beyond Bongong of native cooking utensils, and the various other articles manufactured for native use.

Sugar ... .. 109 tons.

The increased rate carried under this head in August last is probably the cause of the falling off this month. The sugar carried over the line is almost entirely the produce of the Jhikergachi mills; so that a large increase in despatches in any one month is generally followed by a corresponding decrease later on.

CALCUTTA, the 13th December 1886.

F. P. QUINLAN, Examiner of Accounts.

## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 15th January 1887, on 1,515 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	218,837	2,47,025 12 0	26,01,173 20	6,46,273 4 9	18,665 14 0	9,12,564 14 9	65,559	112,400½	177,959½
Or per mile of railway ...	.....	163 7 2	.....	426 9 4	12 5 2	602 5 8	.....	.....	.....
For previous 8 days of half-year ...	232,168	2,73,678 6 0	31,95,539 0	7,84,097 11 6	21,396 5 0	10,79,172 6 6	74,919	121,945½	196,864½
Total for 2 weeks ...	451,005	5,21,304 2 0	57,96,712 20	14,30,371 0 3	40,062 3 0	19,91,737 5 3	140,478	234,354½	374,832½
COMPARISON.									
Total for corresponding week of previous year ...	218,825	2,38,672 2 8	24,88,795 20	6,99,098 2 3	21,079 12 8	9,58,760 1 7	65,833	106,906	176,744
Per mile of railway corresponding week of previous year ...	.....	157 8 8	.....	461 6 3	13 14 7	632 13 6	.....	.....	.....
Total to corresponding date of previous year ...	467,427½	5,45,712 13 7	58,10,813 10	15,78,635 14 6	47,329 10 2	21,71,869 6 3	152,385	246,751	399,136

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,515	9,58,760	633	1,515	9,12,565	602	1,515	3,65,73,773	24,141	1,515	2,63,83,790	24,016	.....	1,80,933

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 15th January 1887, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,545	5,790 12 0	36,930 0	2,509 6 0	30 10 0	8,330 12 0	1,712	683	2,394
Or per mile of railway ...	202	101 3 10	645 30	43 13 11	0 8 6	145 10 3	.....	.....	.....
For previous 8 days of half-year ...	13,376	6,422 1 0	47,952 30	3,410 9 0	37 11 0	9,870 5 0	1,932	804	2,736
Total for 2 weeks ...	24,921	12,212 13 0	84,882 30	5,919 15 0	68 5 0	18,201 1 0	3,644	1,486	5,130
COMPARISON.									
Total for corresponding week of previous year ...	11,406	5,648 12 2	39,094 10	2,102 9 0	49 15 3	7,801 4 5	1,861	1,096	2,957
Per mile of railway corresponding week of previous year ...	199	98 12 1	683 20	36 12 1	0 14 0	136 6 2	.....	.....	.....
Total to corresponding date of previous year ...	28,947	15,799 9 10	75,669 20	4,806 13 0	162 3 9	20,768 10 7	4,370	2,021	6,391

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,801	136	57½	8,331	146	57½	5,90,963	6,835	57½	4,20,613	7,353	29,650	.....



## DILDARNAGAR-GHAZIPUR STATE RAILWAY.

*Approximate Return of Traffic for week ended 15th January 1887, on 12 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,202	370 9 0	18,129 10	426 1 0	8 11 0	805 5 0	345½	148	493½
Or per mile of railway ...	...	30 14 1	...	58 11 1	0 11 7	67 1 9	...	...	...
For previous 8 days of half-year ...	2,707	451 10 0	24,611 30	604 4 0	8 11 0	1,064 9 0	388	176	564
Total for 2 weeks ...	4,909	822 3 0	42,741 0	1,030 5 0	17 6 0	1,869 14 0	733½	324	1,057½
COMPARISON.									
Total for corresponding week of previous year ...	2,290½	390 2 6	26,097 0	704 4 0	25 10 3	1,120 0 9	141	188	329
Per mile of railway corresponding week of previous year ...	...	32 8 3	...	58 11 1	2 2 2	93 5 5	...	...	...
Total to corresponding date of previous year ...	5,039½	855 2 1	44,841 30	1,143 5 0	56 6 0	2,054 13 1	403	349	752

*Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
12	1,120	93	12	805	67	12	36,341	3,028	12	37,186	3,009	845	.....

## SINDIA STATE RAILWAY.

*Approximate Return of Traffic for week ended 15th January 1887, on 74½ miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	4,871	3,896 9 0	1,32,973 10	6,514 4 0	129 0 0	10,539 13 0	730	1,168½	1,898½
Or per mile of railway ...	...	52 1 6	...	87 1 5	1 11 7	140 14 6	...	...	...
For previous 8 days of half-year ...	5,879	4,533 10 0	1,29,133 10	6,546 6 0	183 5 0	11,063 5 0	800	1,327½	2,127½
Total for 2 weeks ...	10,750	8,230 3 0	2,62,106 20	13,060 10 0	312 5 0	21,603 2 0	1,530	2,496½	4,026½
COMPARISON.									
Total for corresponding week of previous year ...	4,575	3,470 3 3	80,585 0	3,648 0 0	84 0 3	7,202 3 6	1,361	1,380	2,741
Per mile of railway corresponding week of previous year ...	...	46 6 3	...	48 12 4	1 2 0	96 4 7	...	...	...
Total to corresponding date of previous year ...	10,750	9,604 3 7	1,87,693 0	7,111 3 0	373 7 0	16,528 13 7	3,307	3,088	6,395

*Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
74½	7,202	96	74½	10,540	141	74½	2,82,857	3,775	74½	3,05,439	4,084	23,102	.....

## TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 15th January 1887, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	15,912	3,956 6 0	4,774 30	142 6 0	9 0 0	4,107 12 0	987	25	1,012
Or per mile of railway ...	.....	177 13 0	.....	6 6 5	0 6 6	184 9 11	.....	.....	.....
For previous 8 days of half-year ...	17,722	4,307 11 0	7,121 0	287 11 0	8 11 0	4,604 1 0	1,068	38	1,106
Total for 2 weeks ...	33,634	8,264 1 0	11,895 30	430 1 0	17 11 0	8 11 13 0	2,055	63	2,118
COMPARISON.									
Total for corresponding week of previous year ...	16,803	4,104 7 9	6,707 30	240 15 0	6 14 9	4,352 5 6		33	1,188
Per mile of railway corresponding week of previous year ...	.....	184 7 6	.....	10 13 3	0 5 0	195 9 9	.....	.....	.....
Total to corresponding date of previous year ...	36,399½	9,056 14 7	19,661 0	789 7 0	10 12 9	9,837 2 4	2,585	237	2,822

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16th JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15th JANUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 1885 TO 16th JANUARY 1886.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 15th JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
22½	4,352	196	22½	4,108	185	22½	1,92,340	8,644	22½	1,87,802	8,441	.....	4,538

## INDIAN MIDLAND RAILWAY.

Approximate Return of Traffic for week ended 15th January 1887, on 42 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,741	1,251 2 9	56,836 30	4,234 14 0	29 8 0	5,515 8 9	225	573	798
Or per mile of railway ...	.....	29 12 8	.....	100 13 3	0 11 3	131 5 2	.....	.....	.....
For previous 8 days of half-year ...	1,690	1,233 8 3	52,679 10	3,671 6 0	41 11 0	4,946 9 3	256	584	840
Total for 2 weeks ...	4,431	2,484 11 0	1,09,516 0	7,906 4 0	71 3 0	10,462 2 0	481	1,157	1,638

Approximate Statement of gross receipts of the Indian Midland Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 188 .			RECEIPTS FOR WEEK ENDING 15th JANUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 188 . TO 188 .			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 15th JANUARY 1887.			Total increase in 188 .	Total decrease in 188 .
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.					Rs.	Rs.		
.....	.....	.....	42	5,516	131	.....	.....	.....	42	1,04,162	2,480	.....	.....

## EASTERN BENGAL STATE RAILWAY.

Approximate Return of Traffic for week ending 15th January 1887, on 234 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 8 days ...	84,420	32,426 0 0	208,175 0	51,310 0 0	4,390 0 0	88,036 0 0	11,529	8,051	19,580
Per mile of railway ...	361	139 0 0	1,146 0	219 0 0	...	358 0 0	...	...	...
Per previous 1 week of half-year ...	137,249	43,170 0 0	208,141 0	48,210 0 0	4,800 0 0	96,180 0 0	13,314	8,858	22,172
Total for 2 weeks ...	221,669	75,596 0 0	536,316 0	99,520 0 0	9,190 0 0	1,84,216 0 0	24,843	16,909	41,752
COMPARISON.									
Total for corresponding 9 days of previous year ...	87,427	34,450 0 0	3,50,855 0	47,238 0 0	3,250 0 0	84,947 0 0	11,217	9,632	20,849*
Per mile of railway corresponding period of previous year ...	374	147 0 0	1,628 0	202 0 0	...	349 0 0	...	...	...
Total to corresponding date of previous year ...	193,122	79,655 0 0	8,60,744 0	1,12,062 0 0	9,315 0 0	2,01,032 0 0	25,531	21,512	47,043

\* Exclusive of 1,260 miles for ballast train.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 15TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 15TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
234	84,947	363	234	88,036	376	234	35,66,834	15,243	234	41,82,513*	17,874	6,15,679	...

\* Audited up to week ending 20th November 1886.

## BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ending 15th January 1887, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,400	7,477 0 0	17,576 0	1,160 0 0	16 0 0	8,593 0 0	3,786	1,424	5,210
Per mile of railway ...	155	60 0 0	141 0	9 0 0	...	69 0 0	...	...	...
Per previous 1 week of half-year ...	28,576	9,110 0 0	20,340 0	1,334 0 0	50 0 0	10,494 0 0	4,430	1,674	6,104
Total for 2 weeks ...	47,976	16,587 0 0	37,916 0	2,434 0 0	66 0 0	19,087 0 0	8,216	3,098	11,314
COMPARISON.									
Total for corresponding week of previous year ...	20,109	7,143 0 0	34,244 0	1,386 0 0	21 0 0	8,550 0 0	3,883	1,389	5,272
Per mile of railway corresponding period of previous year ...	161	57 0 0	274 0	11 0 0	...	68 0 0	...	...	...
Total to corresponding date of previous year ...	44,689	16,446 0 0	67,376 0	3,084 0 0	29 0 0	19,559 0 0	8,968	3,054	12,022

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 15TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 15TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
125	8,550	68	125	8,593	69	125	4,17,597	3,341	125	4,62,194*	3,698	44,597	...

\* Audited up to week ending 20th November 1886.



## DACCA STATE RAILWAY.

Approximate Return of Traffic for week ending 15th January 1887, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,889	3,665 0 0	12,398 0	1,470 0 0	40 0 0	5,115 0 0	2,189	793	2,982
Or per mile of railway ...	138	42 0 0	144 0	17 0 0	...	59 0 0	...	...	...
For previous 1 week of half-year ...	14,060	5,240 0 0	15,380 0	1,560 0 0	50 0 0	6,850 0 0	2,570	906	3,476
Total for 2 weeks ...	25,949	8,845 0 0	27,778 0	3,030 0 0	90 0 0	11,965 0 0	4,759	1,699	6,458
COMPARISON.									
Total for corresponding week of previous year (audited) ...	8,120	1,798 0 0	2,859 0	415 0 0	88 0 0	2,301 0 0	675	1,552	2,227
Per mile of railway corresponding period of previous year ...	94	21 0 0	33 0	5 0 0	...	26 0 0	...	...	...
Total to corresponding date of previous year ...	18,688	3,940 0 0	8,859 0	1,179 0 0	200 0 0	5,319 0 0	1,491	3,197	4,688

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
86	Rs. 2,301	Rs. 27	86	Rs. 5,115	Rs. 59	62	Rs. 80,928	Rs. 32	86	Rs. 2,07,951*	Rs. 59	Rs. 1,27,023	...

\* Audited up to week ending 20th November 1886.

## NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 15th January 1887, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,422	875 0 0	16,090 0	845 0 0	13 0 0	1,734 0 0	509	254	763
Or per mile of railway ...	89	32 2 0	590 0	31 0 0	0 8 0	63 10 0	...	...	...
For previous 1 week of half-year ...	2,659	928 0 0	25,901 0	1,080 0 0	24 0 0	2,032 0 0	582	290	872
Total for 3 weeks ...	5,081	1,803 0 0	39,991 0	1,925 0 0	37 0 0	3,766 0 0	1,091	544	1,635
COMPARISON.									
Total for corresponding week of previous year ...	2,506½	949 4 0	7,178 0	499 2 0	20 13 0	1,469 3 0	509	254	763
Per mile of railway corresponding week of previous year ...	94	34 13 0	268 0	18 5 0	0 12 0	53 14 0	...	...	...
Total to corresponding date of previous year ...	5,300	2,059 3 0	18,027 30	1,320 14 0	36 15 0	5,417 0 0	1,163	581	1,744

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
27½	Rs. 1,469	Rs. 54	27½	Rs. 1,734	Rs. 64	27½	Rs. 61,587	Rs. 2,260	27½	Rs. 65,863	Rs. 2,417	Rs. 4,276	...

## KAUNIA AND DHURLLA STATE RAILWAY.

*Approximate Return of Traffic for the week ended 15th January 1887, on 37 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated.)	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	1,766	568 0 0	6,440 0	446 0 0	1,075 0 0	2,089 0 0	259	269	528
Or per mile of railway ...	48	15 0 0	174 0	12 0 0	...	27 0 0	7	7	14
For previous 2 weeks of half-year ...	2,143	792 0 0	5,775 0	396 0 0	1,272 0 0	2,469 0 0	296	316	612
Total for 3 weeks ...	3,909	1,360 0 0	12,214 0	842 0 0	2,347 0 0	4,549 0 0	555	585	1,140
COMPARISON.									
Total for corresponding weeks of previous year ...	1,656	750 0 0	2,550 0	142 0 0	1,268 0 0	2,160 0 0	259	259	518
Per mile of railway corresponding week of previous year ...	45	20 0 0	69 0	4 0 0	...	24 0 0	7	7	14
Total to corresponding date of previous year ...	3,968	1,804 0 0	6,435 0	412 0 0	3,182 0 0	5,392 0 0	592	592	1,184

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Kaunia and Dhurlla State Railway.*

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
37	2,160	58	37	2,089	56	37	1,00,130	64	37	96,424*	62	.....	3,706

\* Audited up to week ending 11th December 1886.

## NORTHERN BENGAL STATE RAILWAY.

*Approximate Return of Traffic for the week ended 15th January 1887, on 249 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings inclusive steam-boat (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,912	12,520 0 0	1,35,866 0	31,000 0 0	5,100 0 0	45,620 0 0	5,012	10,168	15,180
Or per mile of railway ...	72	50 0 0	546 0	125 0 0	...	175 0 0	20	41	60
For previous 2 weeks of half-year ...	20,310	15,040 0 0	1,49,520 0	30,030 0 0	5,800 0 0	50,900 0 0	5,530	9,407	14,937
Total for 2 weeks ...	38,222	27,560 0 0	2,85,386 0	61,060 0 0	10,900 0 0	99,520 0 0	10,542	19,575	30,117
COMPARISON.									
Total for corresponding week of previous year ...	18,642	12,064 14 6	1,79,919 0	35,108 11 0	6,192 0 8	54,265 10 2	5,012	11,492	16,504
Per mile of railway corresponding week of previous year ...	75	52 1 1	723 0	141 0 0	...	193 1 1	20	46	66
Total to corresponding date of previous year ...	42,702	30,240 13 2	4,12,395 0	80,572 7 0	14,048 6 2	1,24,861 10 4	10,740	27,510	38,252

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Northern Bengal State Railway.*

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
249	54,266	218	249	45,620	185	249	17,91,720	171	249	21,01,462*	201	3,09,742	.....

\* Audited up to week ending 11th December 1886.

## TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the first 8 days of January 1887, on 246 miles open.

	COACHING TRAFFIC.		MERCHANTIST AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the first 8 days on 246 miles open	37,560	12,656 0 0	1,58,713 0	14,520 0 0	3,985 0 0	31,161 0 0	6,119	4,761	10,880
Or per mile of railway	153	51 7 0	645 0	59 0 0	2 6 0	112 13 0*	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for 8 days	37,560	12,656 0 0	1,58,713 0	14,520 0 0	3,985 0 0	31,161 0 0	6,119	4,761	10,880
COMPARISON.									
Total for corresponding 8 days of previous year on 226 miles open	38,808	14,834 14 2	1,22,902 10	13,514 11 0	2,638 3 1	30,987 12 3	5,468	4,112	9,580
Per mile of railway corresponding week of previous year	172	65 10 0	544 0	59 13 0	1 5 0	126 12 0*	.....	.....	.....
Total to corresponding date of previous year	38,808	14,834 14 2	1,22,902 10	13,514 11 0	2,638 3 1	30,987 12 3	5,468	4,112	9,580

\* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR FIRST 9 DAYS OF JANUARY 1886.			RECEIPTS FOR FIRST 8 DAYS OF JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 8TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
226	30,988	137	246	31,161	127	226	9,88,474	4,374	246	11,90,576	4,840	2,02,102	.....

## TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 15th January 1887, on 246 miles open.

	COACHING TRAFFIC.		MERCHANTIST AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 246 miles open	33,399	12,472 0 0	1,42,309 0	12,927 0 0	3,703 0 0	29,102 0 0	5,179	5,483	10,662
Or per mile of railway	136	50 11 0	578 0	52 9 0	2 7 0	105 11 0*	.....	.....	.....
For previous 1 week of half-year	37,560	12,656 0 0	1,58,713 0	14,520 0 0	3,985 0 0	31,161 0 0	6,031	5,048	11,079
Total for 2 weeks	70,969	25,128 0 0	3,01,022 0	27,447 0 0	7,688 0 0	60,263 0 0	11,210	10,531	21,741
COMPARISON.									
Total for corresponding week of previous year on 226 miles open	25,574	9,714 15 3	1,01,453 10	10,482 0 0	3,464 0 7	23,660 15 10	3,448	3,781	7,229
Per mile of railway corresponding week of previous year	113	43 0 0	449 0	46 6 0	7 12 0	97 2 0*	.....	.....	.....
Total to corresponding date of previous year	64,882	21,549 13 5	2,24,355 20	23,996 11 0	6,102 3 8	54,648 12 1	8,916	7,893	16,809

\* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 16TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 15TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 16TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 15TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
226	23,661	105	246	29,102	118	226	10,12,135	4,478	246	12,16,381	4,945	2,04,226	.....





# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 2, 1887.

## OFFICIAL PAPERS.

*Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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### ESTABLISHMENT OF AN IMPERIAL INSTITUTE IN LONDON IN COMMEMORATION OF HER MAJESTY'S JUBILEE.

The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secy. to the Government of Bengal.*

The 31st January 1887.

Circular No. 3—13-5Ex., dated Calcutta, the 24th January 1887.

From—W. R. LAWRENCE, Esq., Under-Secretary to the Government of India,  
Revenue and Agricultural Department,

To—The Secretary to the Government of Bengal.

In forwarding, for the information of His Honour the Lieutenant-Governor, a copy of a telegram from the Secretary of State, I am directed by His Excellency the Governor General in Council to request that, as it is advisable that the Imperial Institute to be founded in London in commemoration of Her Majesty's Jubilee should not be excluded from the attention of the Indian communities which are now rapidly maturing their plans for the celebration of that event, the wishes of His Royal Highness the Prince of Wales may be communicated, in anticipation of the Secretary of State's despatch, both to all Committees formed

for the purposes of the Jubilee, and to the Chambers of Commerce, the Municipal and Local Boards, and other influential bodies. His Excellency the Governor General in Council observes that the Imperial Institute, inasmuch as it is designed to increase the demand for Indian produce and manufactures by bringing them to the notice of consumers, and thus to call into requisition improved processes and methods of supply, is not unconnected with the promotion of industrial education in India, and may suitably find a place beside the local means of technical instruction among the permanent objects to which the larger communities are proposing to devote their subscribed funds. I am to request, therefore, that you will move His Honour to adopt early measures to make known to all classes of the community the wishes of His Royal Highness, and the objects of the Institution, as explained in the report of the Committee, and to take into consideration the formation of Local Committees with a view to further action for giving them effect.

Telegram, dated 18th January 1887.

From—Secretary of State, London,

To—Viceroy, Calcutta.

COMMEMORATION of Jubilee Imperial Institute. I send despatch enclosing letter from His Royal Highness the Prince of Wales with Report of Committee adopting suggestion of permanent representation of resources of Empire managed by body created by Charter with building for libraries, museums, trade conferences, &c. Scheme accepted by Chambers of Commerce and Colonial Agents, and acceptable to Her Imperial Majesty the Queen personally, may be held to be finally decided on. His Royal Highness the Prince of Wales hopes it will receive cordial support of Your Excellency's Government and Princes of India. I concur, and suggest formation of Central and Local Committees to make objects known to all class of community.

## THE IRON WORKS AT BARÁKAR.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

GENERAL—ACCOUNTS.

*Dated Calcutta, the 11th January 1887.*

The following list of articles that can be manufactured at the Iron Works at Barákar is published for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

*Under-Secretary to the Government of Bengal,*

*P. W. Dept.*

*List of Articles that can be manufactured at the Iron Works at Barákar.*

Number of items.	NAMES OF ARTICLES.	Rate per cwt. at Barákar.		REMARKS.
		Rs	P.	
1	Pipes (socket), cast-iron ...	4	0 0	Faced joints and drilled bolt holes.
2	Flange pipes, ditto ...	6	0 0	
3	Special piping (bends, tees, &c.) ...	from 7	0 0	
4	Cylinders ...	7	8 0	Faced joints and drilled bolt holes.
5	Pillars and brackets ...	7	8 0	
6	Girders ...	7	8 0	
7	Chairs for rails ...	3	4 0	Faced joints and drilled bolt holes.
8	D. O. sleepers (cast-iron parts), metre gauge ...	3	4 0	
9	D. O. sleepers (cast-iron parts), broad gauge ...	3	2 0	
10	Road-rammers ...	5	8 0	Faced joints and drilled bolt holes.
11	Railings ...	from 4	8 0	
12	Gates ...	8	0 0	
13	Monkeys ...	from 80	0 0	Per cwt.
14	Weights (cast-iron) ...	5	0 0	Per gate.
15	Anvils ...	8	0 0	Per cwt.
16	Axle-boxes, cast-iron parts only ...	6	0 0	For metre gauge railways.
17	Ditto ditto ditto ...	6	8 0	
18	Fire-bars for engines ...	from 5	0 0	
19	Trolly wheels, faced ...	7	0 0	For broad ditto.
20	Ploughs (complete) ...	from 6	0 0	
21	Ditto (cast-iron parts only) ...	7	0 0	
22	Hand water-lift ...	from 3	12 0	Per piece.
23	Water-lift for bullock power ...	4	0 0	
24	Castings (cast-iron), of sorts ...	from 1	2 0	
		1	10 0	Ditto.
		30	0 0	
		90	0 0	
		3	8 0	Ditto.
		20	0 0	
		20	0 0	

*N.B.*—Further particulars may be obtained from the Superintendent of the Iron Works at Barákar.



## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government during the week ending the 29th January 1887.

No.	District and date of return.	Rainfall at Sudder station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BENGAL.</b>			
<i>Western Districts</i>			
<b>BURDWAY DIVN.</b>	1 Burdwan, Jan. 29, '87	Nil	Weather—cold and dry. All prospects good. Public health has much improved.
	Ranigunge	0.58	
	Culna	0.76	
	2 Bankura, " 29 "	0.05	Weather—seasonable. Prospects of winter crops favourable. Mustard is being gathered in places. Prices stationary. Public health good.
	3 Beerbhoom, " 29 "	0.02	Weather—very cold. Late rain has done good to rubber crops. Price of rice stationary. Public health good.
	Rampore Haut	0.95	
<b>PRESIDENCY DIVN.</b>	4 Midnapore, " 29 "	Nil	Weather—cold. Rice harvest good. Public health good.
	5 Hooghly, " 30 "	0.04	Weather—very cold. All prospects good. Public health improving.
	Seraipore	0.15	
	Jehanabad	0.12	
	Howrah, " 31 "	0.02	Weather—seasonable. State and prospects of crops very good.
<i>Central Districts</i>			
<b>PRESIDENCY DIVN.</b>	6 24-Parganas, Feb. 1, '87	Nil	Weather—cool. Harvesting of <i>amun</i> nearly complete; outturn satisfactory. Sugarcane is being cut and pressed. Rice 18 to 20½ seers per rupee. Public health generally good; only a few sporadic cases of cholera reported.
	7 Nuddea, Jan. 29 "	0.74	Weather—cold. Prospects of standing crops favourable. Cholera abating and public health good. Prices of food-grains stationary.
	Kushitea	0.41	
	Chudangah	0.37	
	8 Khosla, " 31 "	0.37	Weather—seasonable. <i>Amun</i> is nearly harvested; outturn good. Winter crops promising well. Public health good.
	9 Jessore, " 29 "	0.73	Weather—very cold. Latter part of the week cloudy with slight rain. Harvesting of <i>amun</i> rice approaches completion. Standing crops prospering. Isolated cases of fever reported from Narail sub-division; public health otherwise good.
<b>RAJSHAHY DIVN.</b>	Jhenidah	0.7	
	Magurah	0.16	
	Narail	0.62	
	10 Moorhedabad, " 29 "	0.03	Weather—seasonable. Prospects of crops good, though mustard plants have been slightly injured in places by hail. Public health good.
	Jungipore	0.22	
<b>RAJSHAHY DIVN.</b>	11 Dinagore, Jan. 28, '87	0.05	Sky overcast and rain fell on one day all over the district. State and prospects of rubber crops good. Cholera reported from Raikankoil and Birgaunge. Rice selling at from 25 to 30 seers per rupee.
	12 Rajshahy, " 29 "	Nil	Weather—still cold and cloudy. Cutting and pressing of sugarcane still continuing. Prospects of standing crops promising. Ganja plants greatly benefited by late rain. Public health fair, though a few cases of cholera still reported.
	Natore	0.83	
	Nayagaon	0.28	
	13 Rungpore, " 29 "	Nil	Weather—cool and cloudy. Mustard is being gathered. Other rubber crops doing well, except in the Sudder sub-division. Land is being ploughed for <i>aus</i> and jute crops. Public health good.
	Niphamari	1.35	
<b>RAJSHAHY DIVN.</b>	Kurigram	0.62	
	Gaibandha	0.38	
	14 Bogra, " 29 "	Nil	Weather—pleasant and seasonable. Land is being ploughed for jute, <i>aus</i> and sugarcane. Mustard and pulses doing well. Cutting of <i>amun</i> nearly finished. Price of rice steady. Public health fair.
	Sherpur	0.2	
	Nowkhilla	0.58	
	15 Pabna, " 29 "	0.50	Weather—very cold. Crops doing well. Rain has allowed land to be prepared. Public health good.
<b>RAJSHAHY DIVN.</b>	Serajgunj	0.8	
	16 Dacca, " 29 "		Weather—changeable; cold and misty with occasional rain. State and prospects of crops good.
	17 Julpigoree, " 29 "	Nil	Weather—cold and foggy in the mornings. <i>Haimanti</i> rice is being threshed with good outturn. Prospects of sugarcane, tobacco, mustard and wheat fair. Sporadic cases of fever and small-pox at Kerandi and Myungoree; otherwise public health good.
<i>Eastern Districts</i>			
<b>DACCA DIVISION.</b>	18 Dacca, Jan. 29, '87		Weather—very cold. Pressing of sugarcane going on. Pulses are being gathered. Recent rain has done much good to <i>boro</i> paddy. Prospects good. Cholera decreasing.
	Manickgunge	0.38	
	Munshigunge	0.44	
	Naraingunge	0.57	
	19 Faridkot, " 29 "	0.15	Weather—cloudy and cold. Rubber crops thriving; prospects fair. Outbreak of cholera here and there.
	Madaripore	0.94	
<b>DACCA DIVISION.</b>	20 Buckergunge, " 28 "	1.21	Weather—cloudy; rain on three days during the week. Reaping of <i>amun</i> still going on. Prospects of winter crops favourable. Fever of a severe type still prevails. Cholera and small-pox reported from some stations.
	21 Mymensingh, " 28 "	0.58	Rain on 21st and 26th; weather cold and cloudy. Prospects of crops good.
	Jamalpur	1.18	
	Kishoregunge	0.53	
	Attia	0.85	
<b>CHITTAGONG DIVN.</b>	Narokoma	0.23	
	22 Chittagong, Feb. 1 "	0.10	Weather—seasonable. <i>Amun</i> harvested with good outturn. Prospects of winter crops fair. Prices of food-grains steady. Public health good.
	Naacholia	1.14	
	Penny	1.10	Weather—very cold; cloudy and rainy. Reaping of <i>amun</i> crop finished. Winter crops doing well. Rain has bettered the prospects. Public health generally good.
	24 Tipperah, " 27 "	0.38	Weather—cold and cloudy. Mustard is being reaped and sugarcane pressed. Lands are being ploughed for jute. Cholera still prevalent, as many deaths as 70 being reported in a day. Price of rice is not abnormal.
	Brahmanbariah	0.21	
<b>CHITTAGONG DIVN.</b>	Chandpur	0.50	
	25 Chittagong Hill Tracts, " 25 "	1.82	Weather—very cold. Gathering of cotton nearly over. Sugarcane is being pressed. Tobacco and other cold-weather crops doing well; prospects generally good. Recent rain (on 21st instant) has very materially improved condition of cold-weather crops. Jute-cutting has commenced.
	Hill Tipperah, " 26 "	0.96	Weather—cold and cloudy. Winter crops doing well. Tobacco is being cut. Public health good.

No.	District and date of rainfall.	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BEHAR.</b>			
PATNA DIV.	26 Patna, Jan. 29, '87	Nil	Weather—very cold with west wind; atmosphere generally clear. Recent rain has partially damaged gram and peas in flower, but has much benefited other <i>rubbee</i> crops. Poppy has commenced to flower. Public health generally good.
	27 Gaya, " 28 "	Nil	Weather—cold and clear. Rice harvest very good. <i>Rubbee</i> prospects excellent. Poppy good. Public health fair. Cattle-disease reported.
	28 Shahabad, " 29 "	Nil	Cool and clear bright weather. Prospects of <i>rubbee</i> continue favourable. Late rain has done some damage to crop already irrigated with canal water.
	29 Sasaram, " " "	Nil	Weather unfavourable to poppy. Public health good.
	29 Bhabhua, " 29 "	0.80	Weather—clear and very cold. Prospects of <i>rubbee</i> crops favourable. Recent rain has done some injury to <i>rahur</i> and other crops now flowering, but has much benefited sowing of indigo. Prices rising. Public health generally good.
	29 Darbhanga, " 29 "	Nil	Weather—mostly cloudy and cold. <i>Rubbee</i> crops remarkably fine. Peas and rapeseed ripening; wheat and barley coming into ear. Prospects of poppy improved by recent rain. Public health good.
	30 Mozufferpore, " 29 "	0.20	Weather—seasonable. Prospects of <i>rubbee</i> excellent. Poppy slightly injured by blight in Sewan sub-division; its prospects, however, continue favourable. Public health good.
BAGLPORE DIV.	31 Sitamarhi, " 29 "	Nil	Weather—cool and cloudy. Prospects of <i>rubbee</i> continue favourable. Poppy plants progressing. Prices stationary. Public health fair.
	31 Saran, " 29 "	1.31	Weather—cold and cloudy. Prospects of <i>rubbee</i> and poppy crops continue good. Prices stationary. Public health good.
	31 Sewan, " 29 "	Nil	Weather—cold with strong wind. Prospects of all standing crops continue favourable. Public health good.
	32 Gopalgunge, " 29 "	Nil	Weather—cold and fine; west wind prevailing. <i>Rubbee</i> crops promising. Last week's rain has done good.
	32 Champaran, " 29 "	Nil	Weather—seasonable. Prospects of <i>rubbee</i> crops continue excellent. <i>Kalai</i> and mustard are being gathered with full outturn. Common rice 24 to 28 seers per rupee. Public health good.
	33 Monghyr, Jan. 29 "	1.93	Weather—cold and clear. Mustard is being gathered with fair outturn. Other crops doing well. Prices stationary. Public health good.
	34 Jamui, " " "	Nil	Weather—seasonable. Reaping of <i>sarad</i> rice nearly completed. <i>Dalua</i> and tobacco growing well. Rain favourable for <i>dalua</i> , wheat and tobacco, but injurious to mango. Fever still prevails. Public health otherwise good.
	34 Raigumore, " 29 "	1.65	Weather—seasonable. Harvesting of late <i>sarad</i> rice still going on. <i>Kulthi</i> and mustard are being gathered. <i>Dalua</i> crop thriving. Common rice 26 seers 12 chittacks per rupee in the Sudder sub-division and 27 seers 5 chittacks in Khosda sub-division. Cases of small-pox and foot-and-mouth disease among cattle reported.
	34 Soopool, " " "	0.45	Weather—seasonable. Reaping of <i>sarad</i> rice now over. Paddy is being threshed with good outturn. Sugarcane is being cut and pressed. A few cases of cholera and fever reported. Public health otherwise good.
	34 Mudhpore, " " "	Nil	
	34 Banka, " " "	0.03	
	35 Purneah, " 29 "	1.28	
	35 Kishengunge, " " "	Nil	
	35 Arrareah, " 29 "	Nil	
ORISSA.	36 Maldal, " 29 "	1.37	
	36 Chanchal, " " "	Nil	
	36 Shibgunge, " " "	Nil	
	36 Gazole, " " "	Nil	
	37 South Patana, " 29 "	Nil	
	37 Rajmahal, " " "	0.93	
	37 Pakour, " " "	0.88	
CHOTA NAGPORE.	38 Cuttack, Jan. 28 "	0.58	
	39 Pooree, " 27 "	0.28	
	40 Balasore, " 28 "	Nil	
<b>CHOTA NAGPORE.</b>			
<i>South-West Frontier Agency.</i>			
41 Hazaribagh, Jan. 28, '87		Nil	Weather—cold and cloudy at times. <i>Rubbee</i> crops very favourably reported on. The Opium Officer at Barh reports that caterpillars have done great damage to smaller poppy plants, but that, notwithstanding this, he expects a fair outturn. Cattle-disease reported from Ramghur station. Public health good.
42 Jharangza, " 29 "		0.04	Weather—more settled during the week; cold. Prices easy. General health as before.
43 Jangnoom, " 28 "		0.18	Weather—bright and seasonable. Cold-weather crops doing well. General health good.
44 Jangnoom, " 29 "		Nil	Weather—seasonable. <i>Rubbee</i> crops in good condition. Outturn of sugarcane full. Public health good.
45 Govindpore, " " "		0.93	

Published for general information.

CALCUTTA, REVENUE DEPT.;  
The 2nd February 1887.P. NOLAN,  
Offg. Secy to the Govt. of Bengal.

## Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORISSA.	Pooree	Gopalpore	29.933	29.983	—	NE	206	82.2	22nd, 28th Jan.	60.0	24th Jan.	79.2	64.3	71.8	—
		False Point	29.965	29.987	-118	NE	259	81.9	22nd, 27th Jan.	51.0	25th "	70.6	59.9	68.3	-1.6
	Cuttack	Cuttack	29.910	29.994	-103	NE, NW	41	86.9	22nd, 27th Jan.	51.9	24th "	81.1	57.2	69.6	-3.7
	Balasore	Balasore	29.921	29.982	—	N	58.2	85.9	27th "	46.9	24th "	78.3	63.6	66.0	—
	South-West Midnapore	Saugor Island	29.969	29.996	-112	Northerly	199	89.2	27th "	50.6	24th "	77.1	57.4	67.2	-1.7
SOUTH-WEST BENGAL.	South 24-Pergunnahs	Midnapore	29.849	30.006	—	NNW	89.3	83.3	27th "	47.1	24th "	78.0	52.3	63.7	—
	24-Pergunnahs	Calcutta	29.970	29.992	-119	N	110	80.6	27th "	47.2	24th "	71.8	53.0	62.4	-5.0
	Howrah														
	Hooghly														
	Burdwan	Burdwan	29.898	30.004	-107	N	63.0	79.7	27th "	46.1	24th "	72.1	51.7	61.9	-5.3
	Bankoora	Bankoora	29.662	—	—	NW	20	78.1	27th "	47.3	24th "	71.7	51.5	61.6	—
	Beerbhoom	Raneegunge	29.666	—	—	NW	82.3	74.8	27th "	46.2	24th "	71.4	51.8	61.6	—
	West Burdwan														
	Moorshedabad	Berhampore	29.927	29.997	-109	Westerly	79.2	72.1	26th "	46.1	24th "	68.9	51.4	60.2	-6.7
	Nuddes	Krishnaghur	29.947	—	—	Westerly	79.9	80.7	27th "	42.7	24th "	72.3	48.8	60.5	—
EAST BENGAL.	Jessore	Jessore	29.955	29.990	-107	NW	62.4	73.7	26th "	44.4	24th "	71.6	51.5	61.6	-4.5
	Khoolna														
	Chittagong	Chittagong	29.894	29.987	-109	ENE	48	74.6	27th "	47.8	24th "	71.1	54.4	62.8	-4.1
	Chittagong Hill Tracts	Demagiri						Observations not received.							
	Backergunge	Barrisal	29.961	29.974	—	N	63.2	73.8	27th "	45.6	24th "	70.9	51.5	61.2	—
	Noakholly	Noakholly	29.934	29.979	—	Calm	44.9	73.2	28th "	44.7	24th "	70.0	50.1	60.1	—
	Furreedpore	Furreedpore	29.952	—	—	NNW	72.4	70.1	22nd "	44.8	24th "	66.0	50.8	58.4	—
	Dacca	Dacca	29.963	29.987	-103	Variable	72	74.1	2nd, 28th Jan.	47.5	24th, 25th Jan.	71.0	52.0	61.8	-4.5
	Tipperah	Commillah	29.945	29.982	—	NW	21.4	71.4	22nd "	45.1	24th & 26th Jan.	72.2	48.1	60.2	—
	Mymensingh	Mymensingh	29.957	—	—	Calm	46	60.4	28th "	42.1	25th "	63.1	48.0	55.6	—
NORTH BENGAL.	Bogra	Bogra	29.930	29.997	—	W	51.0	72.0	28th "	44.0	24th "	67.6	49.7	58.7	—
	Pubna	Serajgunge	29.936	29.985	—	S	62.0	70.4	28th "	43.1	24th "	67.7	49.2	58.5	—
	Rajshahye	Rampore Beaulah.	29.902	29.977	—	SW	73.2	70.2	28th "	44.7	25th "	68.2	48.4	58.3	—
	Maldah	Maldah	—	—	—	NW	25.7	73.9	22nd "	45.7	24th "	72.8	49.6	61.2	—
	Dinagopore	Dinagopore	29.845	29.972	—	Northerly	56	70.6	28th "	45.8	24th "	67.7	50.1	58.9	—
	Rungpore	Rungpore	29.887	30.020	—	Calm	63.1	70.0	28th "	45.0	24th "	67.2	48.6	57.9	—
	Julpigoree	Julpigoree	29.686	29.990	—	NE	67.5	70.4	28th "	42.0	23rd "	66.9	47.4	57.2	—
	Cooch Behar														
	Darjeeling Hill Districts	Darjeeling	22.845	—	-172	Calm	44.8	40.5	24th, 28th Jan.	31.9	24th "	50.3	26.3	31.3	-9.6
	Purneah	Purneah	29.868	30.003	-114	Westerly	27.5	69.2	25th, 28th Jan.	43.9	24th "	67.3	47.8	57.6	-1.0
NORTH BENGAL.	North Bhagulpore							Observations suspended.							
	Mozufferpore	Mozufferpore													
	Durbhunga	Durbhunga	29.816	29.994	-107	ESE	73	69.3	27th "	46.3	24th "	66.5	50.0	58.3	-4.2
	Chumpanan	Motihari	29.744	29.985	—	E, ESE	131.1	69.9	27th "	41.5	2nd "	66.5	45.4	56.0	—
	Saran	Chupra	29.787	—	—	Westerly	82.5	69.5	28th "	44.6	24th "	67.1	48.4	57.8	—
		Dehree	29.623	29.907	—	SSW	167.2	71.6	25th, 26th Jan.	43.0	24th "	63.7	51.3	60.0	—
	Shahabad	Buxar	29.738	29.994	—	W	126.8	72.9	26th "	43.4	24th "	68.6	48.3	58.5	—
		Arrah	29.766	29.974	—	W	40.5	71.3	26th "	43.9	24th "	68.2	48.0	58.1	—
	Gya	Gya	29.597	29.995	-126	Variable	62.4	73.5	26th "	47.4	23rd "	69.9	61.5	60.7	-3.8
	Patna	Bankipore	29.804	29.998	-122	W	61.9	71.6	28th "	43.3	24th "	68.5	49.1	58.8	-3.6
SOUTH BENGAL.	South Bhagnipore	Bhagnipore	29.812	29.892	—	ENE	75	68.9	27th "	44.0	24th "	67.9	49.8	58.4	—
	Monghyr														
	Sonthal Pergunnahs	Doemka	29.458	—	—	Calm	3.9	71.0	28th "	43.7	24th "	68.9	49.8	59.4	—
	Hazaribagh	Hazaribagh	27.909	29.995	-114	NW	189.2	72.4	26th, 27th Jan.	42.4	23rd "	65.2	49.6	56.4	-6.1
	Lohardugga	Ranchee	27.774	29.981	—	NW	137.5	74.3	27th "	42.4	24th "	66.0	48.8	55.9	—
CENTRAL NAEPER.	Manbhoom														
	Singbhoom	Chyebassa	29.184	—	—	WNW	29.6	83.5	27th "	43.3	24th "	75.5	60.0	62.8	—

**Explanation.—Summary.**—The normal means of air pressure and temperature are the arithmetical averages or means of the reading during the same period for the years 1871 to 1880. The humidity of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The rainfall is the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the year. In the districts sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.



for the week ending Friday, the 28th January 1887.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average rain at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing stations.	RAINFALL.									Average number of rainy days.	Normal number of rainy days.			
			Of week.		Since 1st of month.			Since 15th May 1886.								
			Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
57	0.6	Nil	—	—	—	—	—	—	—	—	—	—	—	Gopalpore	Pooree	ORISSA.
59	2.0	0.57	0.12	0.08	0.26	0.21	+0.05	61.44	55.85	+5.59	0.8	0.3	0.3	False Point		
58	1.4	0.58	0.35	0.10	0.44	0.22	+0.22	64.07	51.63	+12.44	0.8	0.3	0.3	Cuttack		
65	1.1	0.09	0.07	0.08	0.40	0.25	+0.15	57.84	53.69	+4.15	0.2	0.2	0.2	Balasore	Balasore	South-West Midnapore
66	2.0	0.64	0.40	0.08	0.73	0.29	+0.44	52.18	63.14	-10.96	1.7	0.2	0.2	Saugor Island	South 24-Pergunnahs	
63	1.5	0.05	0.01	0.07	0.75	0.36	+0.39	46.57	51.89	-5.32	0.3	0.3	0.3	Midnapore	Midnapore	
69	1.7	0.11	0.25	0.12	1.04	0.58	+0.46	57.23	51.94	+5.29	1.4	0.3	0.3	Calcutta	24-Pergunnahs	Howrah
55	1.7	Nil	Nil	0.12	1.01	0.29	+0.72	53.07	46.35	+6.72	0.0	0.3	0.3	Burdwan	Burdwan	
67	0.9	0.03	0.01	0.12	0.75	0.21	+0.54	53.11	52.16	+0.95	0.2	0.3	0.3	Bankoora	Bankoora	
61	1.1	0.03	0.01	0.08	1.59	0.33	+1.26	66.67	51.71	+14.96	0.5	0.4	0.4	Raneegunge	Beerbhoom	West Burdwan
71	2.9	0.03	0.01	0.08	1.78	0.32	+1.46	66.47	48.95	+17.52	0.5	0.3	0.3	Berhampore	Moorshedabad	
60	2.4	Nil	0.03	0.09	0.75	0.26	+0.49	55.22	49.09	+6.13	0.4	0.3	0.3	Krishnagur	Nuddea	
70	2.6	0.79	0.47	0.09	1.02	0.37	+0.65	59.37	53.52	+5.85	1.6	0.3	0.3	Jessore	Jessore	Khoolna
70	3.7	2.13	1.64	0.03	2.31	0.42	+1.89	129.20	113.75	+15.45	2.5	0.2	0.2	Chittagong	Chittagong	
65	2.0	0.93	1.43	0.08	2.82	0.44	+2.38	77.74	77.98	-0.24	1.8	0.2	0.2	Demagiri	Chittagong Hill Tracts	
20	3.4	0.08	0.45	0.02	2.72	0.44	+2.28	117.27	108.82	+8.45	2.0	0.1	0.1	Noakholly	Noakholly	Furreedpore
61	1.6	0.45	0.38	0.11	0.61	0.0	+0.61	60.54	55.99	+4.55	1.7	0.3	0.3	Furreedpore	Furreedpore	
70	2.1	0.43	0.22	0.10	0.78	0.27	+0.51	76.73	58.44	+18.29	1.5	0.4	0.4	Dacca	Dacca	
63	3.7	0.30	0.29	0.11	1.37	0.51	+0.86	77.30	70.95	+6.35	1.8	0.4	0.4	Commillah	Tipperah	Mymensingh
58	3.3	0.20	0.11	0.08	1.10	0.31	+0.79	67.69	67.44	+0.25	0.6	0.3	0.3	Mymensingh	Mymensingh	
71	3.7	0.05	0.05	0.11	1.26	0.31	+0.95	66.42	56.28	+10.14	0.7	0.3	0.3	Bogra	Bogra	
66	3.1	0.14	0.32	0.08	1.44	0.30	+1.14	69.76	53.52	+16.24	1.5	0.4	0.4	Serajgunge	Pubna	Rajshahye
63	2.1	0.04	Nil	0.12	1.50	0.46	+1.04	79.76	53.84	+25.92	0.0	0.4	0.4	Rampore Beaulah	Rajshahye	
65	2.0	Nil	Nil	0.12	1.46	0.36	+1.10	62.73	53.50	+9.23	0.0	0.4	0.4	Maldah	Maldah	
65	2.0	Nil	Nil	0.10	1.77	0.21	+1.56	74.08	53.69	+20.39	0.0	0.4	0.4	Dinapore	Dinapore	Dinapore
76	0.4	Nil	0.01	0.12	1.92	0.31	+1.61	73.83	73.34	+0.49	0.2	0.3	0.3	Rungpore	Rungpore	
77	4.0	Nil	Nil	0.12	1.61	0.24	+1.37	109.76	110.54	-0.78	0.0	0.4	0.4	Jalpigoree	Jalpigoree	
73	0.20	0.14	0.22	2.71	0.49	+2.22	141.30	116.94	+24.36	0.5	0.8	0.8	Darjeeling	Darjeeling Hill Districts	Darjeeling Hill Districts	
70	2.4	0.03	0.01	0.14	2.60	0.33	+2.27	80.15	56.67	+23.48	0.2	0.3	0.3	Purneah		Purneah
73	1.7	Nil	Nil	0.19	2.03	0.50	+1.53	63.13	43.09	+20.04	0.0	0.4	0.4	Mozufferpore		Mozufferpore
68	3.1	Nil	Nil	0.27	1.13	0.62	+0.51	62.03	45.46	+16.57	0.0	0.4	0.4	Durbhunga	Durbhunga	Durbhunga
64	0.7	Nil	Nil	0.27	1.75	0.54	+1.21	62.93	41.52	+21.41	0.0	0.5	0.5	Motihari	Chumpran	
66	0.0	Nil	Nil										Chupra	Saran		
69	1.3	Nil	Nil	0.17	1.43	0.56	+0.87	56.22	39.33	+16.89	0.0	0.4	0.4	Buxar	Shahabad	Shahabad
68	0	Nil	Nil										Arrah	Arrah		
61	1.4	Nil	Nil	0.17	1.38	0.48	+1.10	65.81	40.03	+25.78	0.0	0.5	0.5	Gya	Gya	
70	0.6	Nil	Nil	0.18	1.85	0.45	+1.40	60.99	40.32	+20.67	0.0	0.5	0.5	Bankipore	Patna	Patna
71	2.1	Nil	Nil	0.13	2.48	0.35	+2.13	60.90	41.07	+19.83	0.0	0.4	0.4	Bhagulpore	South Bhagulpore	
71	1.9	0.02	Nil	0.08	1.67	0.26	+1.41	71.46	45.90	+25.56	0.0	0.3	0.3	Doomka	Southal Pergunnahs	
61	0	Nil	Nil	0.11	2.02	0.23	+1.79	58.74	49.82	+8.92	0.0	0.3	0.3	Hazaribagh	Hazaribagh	Hazaribagh
60	0.6	0.04	0.03	0.17	2.22	0.38	+1.84	50.33	47.20	+3.13	0.5	0.4	0.4	Ranchee	Lohardugga	
61	1.3	Nil	Nil	0.18	0.31	0.55	-0.24	43.81	51.90	-8.09	0.0	0.4	0.4	Chyabassa	Singbhoom	

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.  
 The means of the district are the numerical averages of the rainfall return received in the district, i.e., from the total rainfall at the sub-divisional stations.

## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 23rd of January 1887.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1886.	Average rainfall from 15th May to date.
			Saturday, 22nd January.	Sunday, 23rd January.	Monday, 24th January.	Tuesday, 25th January.	Wednesday, 26th January.	Thursday, 27th January.	Friday, 28th January.	Number of rainy days.	Rainfall week.				
ORISSA	Pooree	Pooree	0.28						1	0.28	0.28	0.15	54.80	32.02	
		Khurda	0.07						1	0.07	0.07	0.22	60.06	5.92	
		Ranpur							Nil	Nil	Nil	0.09	40.57	4.60	
		False Point	0.12						1	0.12	0.07	0.36	58.08	61.28	
		Gop							Nil	Nil		?	60.09	?	
	Cuttack	Pipli													
		Jagatsingpore	0.30							1	0.30	0.70	0.19	68.34	51.31
		Banki	0.58							1	0.58	0.60	0.23	73.30	49.70
		Kendrapara	0.50							1	0.50	0.51	0.28	54.88	55.54
		Jaipore	0.35							1	0.35	0.35	0.32	62.95	52.55
	Balasore	Dharmasalla							Nil	Nil		?			
		Salipore	0.30							1	0.30	0.07	?	62.45	?
		Chandali							Nil	Nil	0.70	0.30	54.91	54.05	
		Bhuddruck	0.40						1	0.40	0.40	0.15	54.44	51.69	
		Sorah							Nil	Nil	0.6	0.15	57.73	51.08	
SOUTH-WEST BENGAL.	Midnapore	Balasore						Nil	Nil	Nil	0.25	0.37	61.89	51.35	
		Jellasore							Nil	Nil	0.25	0.25	53.76	55.31	
		Contai	0.06						1	0.06	0.06	0.17	41.69	51.21	
		Saugor Island	0.37						2	0.04	1.01	0.29	62.89	67.30	
		Tamluk							Nil	Nil	0.40	0.30	44.19	51.34	
	24-Pergunnahs	Midnapore							Nil	Nil	0.8	0.40	45.97	49.41	
		Ghattal	0.02						1	0.02	0.86	0.39	49.64	55.14	
		Devog	0.12						1	0.12	0.69	?	39.48	?	
		Heria							Nil	Nil	Nil	?	47.41	?	
		Bhagwanpore							Nil	Nil	0.4	?	43.59	?	
	Howrah	Garbeta							Nil	Nil	0.46	?	49.47	?	
		Diamond Har- bour	0.42						2	0.50	1.14	0.52	82.67	59.21	
		Canning Town	0.19						2	0.53	0.72	?	58.80	?	
		Alipore Jail							Nil	Nil	1.46	0.55	58.83	55.50	
		Barrackpore							1	0.12	1.05	0.34	55.08	49.25	
Hooghly	Dum-Dum	0.12						2	0.30	1.11	0.43	53.41	51.24		
	Baraset	0.11						2	1.55	2.17	0.44	58.94	50.17		
	Busserhat							2	0.7	0.36	0.47	64.49	54.01		
	Howrah	0.17						3	0.19	1.18	0.44	51.94	51.21		
	Mohesra (Ooloberia.)	0.2						1	0.20	1.07	0.47	54.69	53.19		
Burdwan	Hooghly	0.03						2	0.07	0.64	0.32	57.27	50.55		
	Serampore	0.04						1	0.4	0.86	0.29	54.91	50.09		
	Jehanabad							Nil	Nil	0.32	0.26	51.38	54.34		
	Chalna							Nil	Nil	0.94	0.28	52.98	44.13		
	Burdwan							Nil	Nil	0.80	0.21	57.42	47.34		
KANT BENGAL.	Bankoora	Cutwa							1	0.2	1.29	0.36	48.60	47.31	
		Raneegunge	0.2						1	0.2	1.11	0.23	68.67	45.10	
		Mankur							Nil	Nil	0.76	?	43.75	?	
		Bankoora	0.05						1	0.05	1.08	0.23	61.81	51.53	
		Bishenpore							Nil	Nil	0.25	0.22	59.48	50.35	
	Beerbhoom	Mallara							Nil	Nil	1.35	0.09	58.60	44.41	
		Khatra							Nil	Nil	0.78	0.34	51.32	57.67	
		Indas							Nil	Nil	0.92	?	49.28	?	
		Kotalpore							Nil	Nil	0.35	?	43.71	?	
		Anda							Nil	Nil	?	?	?	?	
	Nuddea	Gangajighati							Nil	Nil	1.09	?	50.85	?	
		Karpore							Nil	Nil	0.12	?	55.38	?	
		Manamukhi							Nil	Nil	1.30	?	37.99	?	
		Bh. Soery	0.02						1	0.02	1.45	0.33	67.99	53.23	
		Hetanpore							Nil	Nil	1.45	0.37	60.77	49.37	
Khoolna	Rampore Haul							Nil	Nil	2.15	0.34	61.27	59.54		
	Botpore							Nil	Nil	0.83	?	64.65	?		
	Nuddea							Nil	Nil	0.81	0.23	59.45	47.14		
	Ranaghat							Nil	Nil	0.58	0.25	49.08	45.81		
	Keshnaghat							Nil	Nil	0.8	0.28	54.66	51.25		
Jessore	Chooadanga							Nil	Nil	0.55	0.29	63.45	47.15		
	Meherpore	0.04						2	0.4	1.13	0.25	67.55	51.90		
	Kooshtea														
	Sathkhira		0.10					3	0.74	1.42	0.35	67.37	55.05		
	Bagirhat	0.15						2	1.25	1.9	0.49	77.10	61.25		
Moorshedabad	Khoolna	0.14						3	0.51	1.99	0.51	47.53	53.94		
	Narail							1	0.21	0.97	0.49	61.87	47.05		
	Jessore	0.06						2	0.79	1.68	0.37	65.13	55.68		
	Jhenidah							1	0.10	0.60	0.24	61.91	55.68		
	Mugoorah							1	0.16	0.44	0.23	61.08	49.75		
Chittagong	Bongong							Nil	Nil	Nil	0.27	51.48	51.94		
	Kandi							Nil	Nil						
	Berhampore	0.03						1	0.3	1.07	0.19	52.79	50.05		
	Lalbagh							Nil	Nil	1.82	0.39	58.09	54.41		
	Azumgunge	0.03						1	0.03	1.05	0.03	61.62	46.25		
Chittagong Hill Tracts.	Jungipore	0.02						1	0.02	2.19	0.46	62.75	59.41		
	Lalga							1	0.02	1.33	0.38	68.60	46.75		
	Akhrganj							Nil	Nil	1.39	0.40	55.99	49.51		
	Cox's Bazar							Nil	Nil	?	?	?	?		
	Chittagong							3	3.34	4.11	0.50	82.35	85.21		
Backergunge	Peropore	0.29						2	3.34	3.11	0.51	78.29	69.05		
	Burrial	0.30						1	1.16	2.20	0.51	61.16	60.05		
	Bhola	0.2						2	0.76	2.20	0.51	61.16	60.05		
	Patuakhally							2	0.10	1.23	0.25	86.74	81.05		
	Peropore														



## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 28th of January 1887—contd.

District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1886.	Average rainfall from 15th May to date.
		Saturday, 2nd January.	Sunday, 3rd January.	Monday, 4th January.	Tuesday, 5th January.	Wednesday, 6th January.	Thursday, 7th January.	Friday, 8th January.	Number of rainy days.	Rainfall week.				
Noakhally	Gournaddi	0.42	.....	.....	.....	0.38	.....	.....	2	1.00	1.58	?	64.37	?
	Bauphal	0.57	.....	.....	.....	0.45	.....	.....	2	1.02	1.55	?	84.52	?
	Noakhally	0.42	.....	.....	.....	0.08	0.04	.....	3	0.54	2.42	0.39	111.33	108.52
	Fenny	0.35	.....	.....	.....	.....	.....	.....	1	0.35	3.00	0.48	123.16	107.61
Farrukhpoore	Harishpore	1.20	.....	.....	.....	.....	0.22	.....	2	1.42	2.12	?	141.77	?
	Ramganj	0.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	?
	Madaripore	0.35	.....	.....	.....	0.13	.....	.....	2	0.48	1.10	0.44	68.00	55.97
Dacca	Furzedpore	0.05	.....	.....	.....	0.45	.....	.....	1	0.50	0.72	0.24	58.08	58.22
	Goalundo	.....	.....	.....	.....	0.15	.....	.....	1	0.15	0.90	0.32	54.43	53.89
	Munshigunge	0.06	.....	.....	.....	0.19	.....	.....	2	0.25	0.68	0.45	95.45	70.47
Hill Tipperah	Dacca	.....	.....	.....	.....	0.21	.....	.....	1	0.21	0.60	0.26	68.07	55.54
	Narainkunge	.....	.....	.....	.....	0.26	.....	.....	1	0.26	0.98	0.04	84.54	54.25
	Manickgunge	0.02	.....	.....	.....	0.15	.....	.....	2	0.17	0.88	0.32	68.85	50.63
	Joydebpore	0.07	.....	.....	.....	0.12	0.06	.....	3	0.25	1.54	?	70.46	?
Tipperah	Agartola	.....	.....	.....	.....	.....	0.25	.....	1	0.25	1.63	0.59	65.68	62.31
	Comilla	0.16	.....	.....	.....	0.10	.....	.....	2	0.26	1.28	0.54	85.62	77.17
	Chandpore	0.20	.....	.....	.....	.....	.....	.....	1	0.20	1.20	0.27	88.25	81.12
	Brannunberia	0.09	.....	.....	.....	0.11	0.25	.....	3	0.45	1.36	0.60	69.64	62.86
Mymensingh	Ramchandra-pore.	0.04	.....	.....	.....	0.08	.....	.....	2	0.12	1.03	?	65.73	?
	Nasirnagar	0.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	?
	Saudkandi	.....	.....	.....	.....	0.16	.....	.....	1	0.16	0.61	?	73.37	?
	Kasba	0.04	.....	.....	.....	0.05	.....	.....	2	0.09	1.32	?	69.13	?
Mymensingh	Laksham	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	.....	?
	Kishoregunge	.....	.....	.....	.....	0.17	.....	.....	1	0.17	1.37	0.51	74.68	70.15
	Atia (Tangail)	.....	.....	.....	.....	0.18	.....	.....	1	0.18	1.56	0.31	54.79	50.36
	Mymensingh	.....	.....	.....	.....	0.21	.....	.....	1	0.21	0.92	0.30	69.00	74.40
Dhaka	Jamalpur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.18	0.39	61.40	66.05
	Netrokona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.46	Nil	78.55	70.13
	Subornakhally	.....	.....	.....	.....	0.27	.....	.....	1	0.27	1.42	?	45.14	?
	Durgapore	0.07	.....	.....	.....	0.06	.....	.....	2	0.13	1.72	?	?	?
Pabna	Deuaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.69	?	62.50	?
	Pabna	0.04	.....	.....	.....	0.46	.....	.....	2	0.50	1.47	0.26	62.06	54.42
	Seraigunge	.....	.....	.....	.....	0.13	.....	.....	1	0.13	1.41	0.33	57.44	62.64
	Sherpore	.....	.....	.....	.....	0.12	.....	.....	1	0.12	1.51	0.26	65.75	58.03
Hogra	Nowkhilla	0.04	.....	.....	.....	0.05	.....	.....	2	0.09	1.21	0.32	53.14	53.65
	Hogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.18	0.48	66.18	59.92
	Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.11	0.27	71.61	52.95
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kishore	Beaulah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.20	0.36	61.98	52.41
	Natore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.78	0.55	57.51	55.36
	Newkong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.82	?	70.02	?
	Lalpor	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.11	?	61.91	?
Maldah	Manda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.87	?	56.98	?
	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.42	0.36	72.32	50.43
	Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.49	0.41	53.13	58.64
	Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.32	?	67.88	?
Dinagopore	Sibganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.37	?	65.02	?
	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.91	0.13	78.38	55.22
	Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.96	0.15	66.56	50.52
	Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.15	0.35	90.52	53.38
Rangpore	Dinagopore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.41	0.34	72.77	61.92
	Balorghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.43	0.11	62.12	47.48
	Bhawanigunge	.....	.....	.....	.....	0.05	.....	.....	1	0.05	1.03	0.31	55.26	61.67
	(Gyabanda)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.54	0.44	71.79	74.49
Rangpore	Rangpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.32	0.35	86.02	73.19
	Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.75	0.15	82.20	54.05
	Begdogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	.....	.....	.....	.....
	(Nilphamari)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.03	?	75.71	?
Ulipore	Ulipore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Julpikore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.92	0.37	127.83	115.52
	Atipore Doar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.83	?	137.10	?
	Fallacotta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.23	?	98.96	?
Cooch Behar	Debiganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.76	?	?	?
	Dinbatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.49	0.26	82.39	95.66
	Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.45	0.35	108.11	118.86
	Mickligunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.43	0.09	115.67	104.90
Dumraing	Mitrananua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.49	0.12	114.45	117.02
	Buxa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.28	0.74	225.18	191.91
	Siliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.99	0.13	146.82	87.29
	Dumraing	0.20	.....	.....	.....	.....	.....	.....	1	0.20	1.32	0.54	115.97	105.87
Kaimpong	Kaimpong	0.35	.....	.....	.....	.....	.....	.....	1	0.35	3.09	0.53	74.04	80.19
	Kissengunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.10	0.41	197.92	66.99
	Arraroad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.26	0.30	91.45	61.58
	Purneah	0.03	.....	.....	.....	.....	.....	.....	1	0.03	2.57	0.33	83.27	59.61
Gondwara	Gondwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.55	?	?	?
	Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.81	?	?	?
	Matiari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.98	?	79.82	?
	Kaliaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.42	?	?	?
North Bhagal-pore.	Madadapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.03	0.34	59.53	48.42
	Sooool	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.96	0.30	58.50	46.50
	Protoganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.45	?	72.13	?
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Durbhunga	Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.01	0.51	74.17	41.31
	Durbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.74	0.40	57.31	44.69
	Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.33	0.57	57.92	43.42
	Bahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.55	?	68.16	?
Koshera	Koshera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.74	?	70.09	?
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mouserpore	Sitamathi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.40	0.46	55.81	40.99
	Mouserpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.66	0.71	67.79	44.32
	Hajipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.15	0.49	59.73	41.12
	Para	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.10	?	51.06	?
Mahua	Mahua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.87	?	55.19	?
	Sankar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.59	?	59.27	?
	Papri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.15	?	58.29	?
	Motinari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.20	0.59	53.04	43.01
Onouparan	Betiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.07	0.03	70.12	47.74
	Betiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.65	?	62.03	?
	Betiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.70	?	50.56	?
	Betiah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	.....	.....	.....	.....



## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 28th of January 1887—concl

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1st of May, 1886.	Average rainfall from 1st of May to date.
			Saturday, 22nd January.	Sunday, 23rd January.	Monday, 24th January.	Tuesday, 25th January.	Wednesday, 26th January.	Thursday, 27th January.	Friday, 28th January.	Number of rainy days.	of rainfall week.				
NORTH BHAR	Sauri	Gopalgunge	...	...	...	...	...	...	...	Nil	Nil	1.80	0.43	59.05	4
		Sawan	...	...	...	...	...	...	...	Nil	Nil	1.58	0.39	59.91	4
SOUTH BHAR	Shahabad	Chunrah	...	...	...	...	...	...	...	Nil	Nil	1.86	0.51	63.92	4
		Buxar	...	...	...	...	...	...	...	Nil	Nil	1.78	0.48	49.88	3
		Dohree	...	...	...	...	...	...	...	Nil	Nil	1.56	?	51.03	3
		Rhuboah	...	...	...	...	...	...	...	Nil	Nil	1.27	0.59	53.04	4
		Sasseram	...	...	...	...	...	...	...	Nil	Nil	1.16	0.30	53.67	4
		Arrah	...	...	...	...	...	...	...	Nil	Nil	1.50	0.58	58.24	3
		Mohania	...	...	...	...	...	...	...	Nil	Nil	0.63	?	28.30	3
		Aurungabad	...	...	...	...	...	...	...	Nil	Nil	1.59	0.48	60.84	4
		Gya	...	...	...	...	...	...	...	Nil	Nil	1.36	0.36	60.98	4
		Nowadah	...	...	...	...	...	...	...	Nil	Nil	1.75	0.55	63.33	3
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	1.63	0.52	64.03	3
		Arwal	...	...	...	...	...	...	...	Nil	Nil	1.91	?	54.18	3
		Daudnagar	...	...	...	...	...	...	...	Nil	Nil	0.95	?	54.16	3
		Sherghati	...	...	...	...	...	...	...	Nil	Nil	2.49	?	60.25	3
		Rajauli	...	...	...	...	...	...	...	Nil	Nil	2.50	?	?	?
		Pakri Barawan	...	...	...	...	...	...	...	Nil	Nil	2.01	?	68.02	3
		Patna	...	...	...	...	...	...	...	Nil	Nil	1.45	0.52	65.68	4
		Dumra	...	...	...	...	...	...	...	Nil	Nil	2.05	0.44	71.80	3
		Behar	...	...	...	...	...	...	...	Nil	Nil	3.04	0.42	55.01	4
		Barre	...	...	...	...	...	...	...	Nil	Nil	1.55	0.39	51.23	3
		Bickram	...	...	...	...	...	...	...	Nil	Nil	1.00	?	?	?
		Hilsa	...	...	...	...	...	...	...	Nil	Nil	1.55	?	?	?
		Begowah	...	...	...	...	...	...	...	Nil	Nil	3.09	0.34	52.42	3
		Monohyr	...	...	...	...	...	...	...	Nil	Nil	2.87	0.31	66.87	3
		Jamui	...	...	...	...	...	...	...	Nil	Nil	2.39	0.35	59.88	4
		Gogri	...	...	...	...	...	...	...	Nil	Nil	3.15	?	55.01	3
		Sheikpura	...	...	...	...	...	...	...	Nil	Nil	1.80	?	63.16	3
		Bhagulpore	...	...	...	...	...	...	...	Nil	Nil	2.23	0.33	64.53	4
		Banka	...	...	...	...	...	...	...	Nil	Nil	1.76	0.41	60.44	3
		Kolga	...	...	...	...	...	...	...	Nil	Nil	2.03	?	62.68	3
		Rajmahal	...	...	...	...	...	...	...	Nil	Nil	1.12	0.07	86.40	4
		Godda	...	...	...	...	...	...	...	Nil	Nil	1.63	0.26	55.32	4
		Pakour	...	...	...	...	...	...	...	Nil	Nil	1.46	0.12	85.02	3
		Nya Doocha	...	...	...	...	...	...	...	Nil	Nil	1.03	0.45	71.97	2
		Deoghur	...	...	...	...	...	...	...	Nil	Nil	1.28	0.34	61.34	4
		Jamtara	...	...	...	...	...	...	...	Nil	Nil	2.57	0.21	68.30	4
		Simra	...	...	...	...	...	...	...	Nil	Nil	2.06	?	56.94	3
		Nanhat	...	...	...	...	...	...	...	Nil	Nil	2.64	?	?	?
		Pachmura	...	...	...	...	...	...	...	Nil	Nil	1.05	0.24	60.90	4
		(Giridi)	...	...	...	...	...	...	...	Nil	Nil	2.60	0.32	58.65	4
		Hazaribagh	...	...	...	...	...	...	...	Nil	Nil	2.18	0.17	52.94	4
		Semragur	...	...	...	...	...	...	...	Nil	Nil	?	0.31	?	?
		Mandi Hills	...	...	...	...	...	...	...	Nil	Nil	1.70	0.08	63.80	3
		Jhoomrah Hills	...	...	...	...	...	...	...	Nil	Nil	3.49	?	69.33	3
		Barhi	...	...	...	...	...	...	...	Nil	Nil	2.81	?	69.11	3
		Chitra	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Karagdeha	...	...	...	...	...	...	...	Nil	Nil	2.91	?	55.00	3
		Kamghar	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Lohardugga	...	...	...	...	...	...	...	Nil	Nil	2.70	?	60.90	3
		Kanchi	...	...	...	...	...	...	...	Nil	Nil	2.29	0.44	54.15	3
		Paimow	...	...	...	...	...	...	...	Nil	Nil	4.10	0.34	51.22	3
		Sili	...	...	...	...	...	...	...	Nil	Nil	0.41	?	46.75	3
		Balumat	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Hosseinabad	...	...	...	...	...	...	...	Nil	Nil	1.23	?	?	?
		Garwah	...	...	...	...	...	...	...	Nil	Nil	4.36	?	64.48	3
		Chyenassa	...	...	...	...	...	...	...	Nil	Nil	0.31	0.55	45.81	3
		Chakradhar	...	...	...	...	...	...	...	Nil	Nil	0.85	?	57.05	3
		Ghatsilla	...	...	...	...	...	...	...	Nil	Nil	1.79	?	56.59	3
		Boharagura	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Purulia	...	...	...	...	...	...	...	Nil	Nil	1.10	0.39	46.03	3
		Gobindapur	...	...	...	...	...	...	...	Nil	Nil	1.38	0.46	49.87	3
		Raghunath	...	...	...	...	...	...	...	Nil	Nil	1.36	?	61.80	3
		Barabhoom	...	...	...	...	...	...	...	Nil	Nil	0.90	?	57.56	3
		Jhalda	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Chas	...	...	...	...	...	...	...	Nil	Nil	2.02	?	59.06	3

Explanation.—Nil cases that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 1st February 1887.

# SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH OF JANUARY 1887.

THE past week has been characterized by large fluctuations of the barometer, considerable deficiency of pressure, slightly unsettled weather, and unusually low temperature. The depression which was advancing eastwards through the province during the latter part of the previous week was in South-East Bengal on Saturday (the 22nd). Moderately heavy rain fell on that day in the Chittagong district and Chittagong Hill Tracts, and light showers in the remaining districts of East Bengal, and in South-West Bengal and Orissa. The barometer rose rapidly on Saturday evening, and the depression disappeared before Sunday morning, when ordinary cold-weather conditions were again established. No change of importance occurred until the 25th, when another cold weather depression which had formed in Upper India began to influence the weather in Bengal. The barometer fell rapidly, and was unusually low in West Bengal on the 26th (Wednesday), and on the 27th in East Bengal, so that the depression passed eastwards. The rainfall accompanying it was not large, and was distributed in a very unusual manner. On the 26th, showers were received to the east of the depression in East Bengal, and in Khoolna, Jessore, Pubna, Bogra. On the 27th rain fell to the south and west of the depression in the 24-Pergunnahs, Chittagong and Backergunge. The barometer rose rapidly on Thursday evening, and fine clear weather extended over the province on Friday morning.

THE barometric fluctuations varied to some extent in different parts of the province, as they depended upon the movements of the two depressions. The barometer rose from '07" to '16" on the evening of the 22nd. It fell steadily and slowly during the 23rd, 24th and 25th in Orissa, Behar, Chutia Nagpur and West Bengal, so that on the morning of the 26th it was from '06" to '15" lower than on the morning of the 22nd. The fall continued in East Bengal until the morning of the 27th, and averaged 1." The barometer rose very slowly after this fall, probably due to the fact that another depression had formed in Upper India, and was again influencing the weather in Bengal. The mean pressure of the week is very considerably below the average, the difference being one-tenth of an inch in East Bengal, one-ninth of an inch in South-West Bengal, Orissa, North Behar and Chutia Nagpur, one-eighth of an inch in South Behar, and very nearly a sixth of an inch at Darjeeling, where pressure is at present unusually low. This is evidently an effect of the unusually stormy weather which has prevailed for some time in the Himalayan area.

Temperature, as is usual in periods of prolonged deficient pressure, was unusually low. The deficiency was greater in the day than in the night temperature. The mean minimum day temperature for the week was below the normal by amounts ranging from 3.7° at Cuttack to 8.9° at Purneah and 9.6° at Darjeeling. The minimum night temperature was practically the same as the mean in North and Central Behar, but was from 3° to 4° below it over the greater part of Bengal, Orissa, and Chutia Nagpur. It was 9.4° in defect at Darjeeling. The chief feature at present is the abnormally low temperature over the hills of Northern India, the defect at Darjeeling averaging nearly 10° for the past week. The mean temperature of the week was 6° below the normal mean in Chutia Nagpur, 4½° in South and East Bengal and North Behar, and 3° in South Behar and Orissa. The following table gives data for eight representative stations:—

Table showing the excess or defect of the actual temperature from the normal for the week ending 28th January 1887.

	Normal mean maximum temperature for the week ending 28th January 1887.	Actual mean maximum temperature for the week ending 28th January 1887.	Variation of actual from normal.	Normal mean minimum temperature for the week ending 28th January 1887.	Actual mean minimum temperature for the week ending 28th January 1887.	Variation of actual from normal.	Normal mean daily temperature for the week ending 28th January 1887.	Actual mean daily temperature for the week ending 28th January 1887.	Variation of actual from normal.
Cuttack	85.8	82.1	-3.7	60.7	57.2	-3.5	73.3	69.6	-3.7
Calcutta	78.8	71.8	-7.0	56.0	53.0	-3.0	67.4	62.4	-5.0
Burdwan	79.3	72.1	-7.2	54.9	51.7	-3.2	67.1	61.9	-5.2
Dacca	78.0	71.0	-7.0	54.8	52.6	-2.2	66.7	61.8	-4.9
Purneah	76.2	67.3	-8.9	48.1	47.8	-0.3	63.2	57.6	-5.6
Bankipore	73.8	68.5	-5.3	49.0	49.1	+0.1	61.4	58.8	-2.6
Hazaribagh	74.2	66.2	-8.0	50.7	49.6	-1.1	62.5	56.4	-6.1
Darjeeling	45.0	36.3	-8.7	35.7	26.3	-9.4	40.8	31.3	-9.5

Rain fell on the 22nd in Orissa, the south-west districts of South-West Bengal and in East Bengal. The amounts were generally small. The Chittagong district and Chittagong Hill district obtained amounts exceeding one inch. A few light local showers were received in other districts. East Bengal, Khoolna, Jessore, Pubna, and Bogra obtained light showers on the 26th, the amounts generally varying between one and five-tenths of an inch. On the 27th light showers fell in the 24-Pergunnahs and in South-Eastern Bengal. Patuakhally, in the Backergunge district, recorded a heavy local fall of 3.05 inches on that day. East Bengal received an average of nearly two-thirds of an inch, but this was mainly due to the heavy rainfall in the Chittagong district (averaging 1.64 inches), and in Backergunge (1.43 inches). Orissa and South-West Bengal obtained an average of two-tenths. The rainfall of the week in Behar, North Bengal, and Chutia Nagpur was practically nil.

The rainfall of the month up to date has been unusually large and well distributed. Chutia Nagpur and Behar have received an average of nearly 2 inches, North and East Bengal an average slightly exceeding 1½ inches, South-West Bengal 1 inch, and Orissa a third of an inch. The normal rainfall of the period varies from quarter of an inch in Orissa to half an inch in North Behar.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 28th of January 1887:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.										RAINFALL.							
	Highest observed during week.	Lowest observed during week	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th Mar 1886.			
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.		
Orissa	86.9	46.9	79.1	58.8	68.9	-2.7	0.20	0.08	+0.12	0.8	0.2	+0.6	16.38	0.23	61.36	53.61		
South-West Bengal	82.3	42.7	72.4	52.2	62.3	-4.6	0.17	0.10	+0.07	0.9	0.3	+0.6	1.07	0.32	56.94	51.86		
East Bengal	77.4	42.1	69.2	50.8	60.0	-4.5	0.64	0.08	+0.56	1.6	0.3	+1.3	1.61	0.38	81.59	74.77		
North Bengal	73.9	42.0	68.3	49.0	58.7	-	0.04	0.11	-0.07	0.3	0.4	-0.1	1.00	0.30	76.94	69.24		
North Behar	69.9	41.5	66.9	47.9	57.4	-4.4	Nil	0.21	-0.21	0.0	0.5	-0.5	1.98	0.48	67.90	47.15		
South Behar	73.5	43.3	68.5	49.7	59.1	-3.2	Nil	0.14	-0.14	0.0	0.4	-0.4	1.86	0.46	63.71	42.48		
Central Nagpur	74.5*	42.4*	66.1*	46.2*	56.2*	-6.1*	0.61	0.14	-0.13	0.2	0.4	-0.2	1.95	0.32	53.92	48.97		

\* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL:  
The 1st February 1887.

JOHN ELIOT,  
Meteorological Reporter to the Govt. of Bengal

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd to 29th January 1887

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Ran. e.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1887.		°	°	°	°	°	Inches.	°	%	Inches.
January	23rd	59.9	70.4	21.0	49.4	55.6	.387	51.8	75	.....
"	24th	60.7	72.4	24.5	47.9	53.3	.310	45.9	58	.....
"	25th	62.4	75.9	26.2	49.7	56.4	.377	51.1	67	.....
"	26th	69.0	82.7	23.8	58.9	66.5	.619	65.0	87	.....
"	27th	63.5	73.9	17.8	56.1	59.0	.441	55.5	75	0.03
"	28th	63.7	73.9	2	52.9	58.4	.420	54.1	71	.....
"	29th	66.5	79.7	25.8	53.9	62.3	.507	59.3	78	.....

The mean temperature of the seven days

The extreme variation of temperature

The maximum temperature

The mean relative humidity

The total fall of rain from 23rd to 29th January 1887

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA,  
The 31st January 1887.

HENRY F. BLANFORD,  
Meteorological Reporter to the Govt. of India.



**Results of the Meteorological Observations taken at the Alipore Observatory from  
23rd to 29th January 1887.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 59° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Miles recorded.	Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.				
1887.		°		Inches.	°	°		°	°	Inches.	°	%			Inches.		
Jan.	23rd	127.0	10.3	29.961	58.7	68.1	19.3	48.8	52.0	0.303	45.2	64	NNW and NW ...	82	Nil	Clear, <i>p.</i>	
"	24th	128.8	10.5	.949	58.3	70.4	23.3	47.1	51.7	.300	45.0	65	N by E, WNW and variable.	57	"	Clear, <i>p.</i>	
"	25th	129.1	10.0	.908	61.0	73.3	24.3	49.0	54.9	.357	49.6	68	SSE and SSW ...	69	"	Clear, <i>p.</i>	
"	26th	140.9	7.8	.821	68.0	80.6	21.7	58.9	64.0	.551	61.7	80	SE by S, NE and variable.	196	"	Chiefly cloudy, o, g.	
"	27th	131.4	9.6	.899	63.6	72.1	15.7	56.4	58.3	.418	54.0	72	N and NNW ...	146	"	Morning cloudy, day and night clear, o.	
"	28th	130.5	10.2	.895	61.9	72.4	19.8	52.6	56.2	.378	51.2	71	N and NNW ...	69	"	Clear, <i>p.</i>	
"	29th	135.2	10.0	.799	66.5	77.4	23.2	54.2	61.7	.485	58.1	74	WSW and SSW ...	152	"	Chiefly clear, <i>p.</i>	

The mean pressure of the seven days	...	inches.	29.890
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	29.995
The total number of hours of bright sunshine	...	Hours.	68.4
The maximum possible number of hours of sunshine	...	...	77.0
The mean temperature of the seven days	...	°	62.6
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	68.6
The extreme variation of temperature	...	...	33.5
The maximum temperature	...	...	80.6
The highest velocity of the wind in one hour	...	Miles.	16
The highest pressure of wind on one square foot	...	lbs.	Not measureable.
The mean relative humidity	...	%	71
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	71
The total fall of rain from 23rd to 29th January 1887	...	Inches.	Nil.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	0.11
The total fall from 1st to 29th January 1887	...	...	1.49
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	0.28

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

d, dew, o overcast, g gloomy.

HENRY F. BLANFORD,

*Meteorological Reporter to the Govt. of India.*

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 31st January 1887.

## MEMORANDUM.

THE principal Municipalities in Bengal returned, during the week ending 15th January 1887, the birth and death-rates of 21.1 and 28.3 per 1,000 of population, respectively, as opposed to 22.1 and 31.1 per 1,000, respectively, in the preceding week ending 8th January, indicating a falling off in the registration of both the events.

2. These events were returned in the highest proportions from the following Municipalities:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Naraingunge	...	58.0	Naraingunge	...	58.0
Comillah	...	53.9	Suburbs of Calcutta	...	53.4
Mooghlyr	...	43.4	Purneah	...	48.5
Beauleah	...	42.0	Puri	...	48.3
Puri	...	39.9	Comillah	...	46.2
Serampore	...	35.4	Serampore	...	37.3
Durbhanga	...	31.5	Beauleah	...	34.2
			Bhagulpore	...	33.5
			Hughli	...	32.2

3. From the figures in the following table, it appears that no death was recorded under the head of small-pox in any Municipality, that the mortality from fever had diminished sensibly, and that the casualties from the rest of the death-causes exhibited only fractional variations, with the exception of cholera, the mortality from which remained stationary:—

			Ratio per mille during the weeks ending—	
			15th January 1887.	8th January 1887.
Cholera	...	...	3.0	3.0
Small-pox	...	...	...	1
Fever	...	...	11.1	13.0
Bowel-complaints	...	...	5.6	5.7
Injury	...	...	3	2
Other causes	...	...	8.3	9.1

4. Of the above-mentioned diseases cholera, fever, bowel-complaints, and the maladies returned under the head of "Other causes" exhibited greatest severity in the following Municipalities:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Naraingunge	37.2	Beauleah	31.5	Puri	1.6	Puri	23.1
Comillah	23.1	Purneah	24.2	Suburbs of Calcutta	11.8	Serampore	21.6
Daeca	7.8	Burdwan	21.4	Chittagong	11.7	Bhagulpore	18.1
Suburbs of Calcutta	5.8			Midnapore	10.8	Suburbs of Calcutta	15.7
Howrah	3.4			Hughli	10.7	Gya	13.7
				Durbhanga	10.2		

5. With reference to *Sex*, *Class* and *Age*, the mortality stood as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	29.1	Christians	52.1	Under 1 year	207.5
Females	27.4	Hindus	26.8	1 and under 5 years	42.2
Ratio of male deaths to every 100 female deaths	120	Mahomedans	31.2	5 " " 10 "	17.9
		Budhists	24.2	10 " " 15 "	7.7
				15 " " 20 "	20.4
				20 " " 30 "	16.5
				30 " " 40 "	22.5
				40 " " 50 "	23.3
				50 " " 60 "	25.1
				60 years and upwards	68.5

R. LIDDERDALE, M.D., *Deputy Surgeon-General,*  
*Sanitary Commissioner for Bengal.*

The 31st January 1887.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 29 January 1887.

DISTRICTS.		NAMES OF MUNICIPALITIES.		POPULATION.		BIRTHS.				MORTALITY ACCORDING TO—										SEX.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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							Males.	Females.	Total.	Males.	Females.	Total.	DEATHS FROM—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
													Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.			Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.	Ratio per 1,000 of population per annum.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Burdwan	Burdwan	18,063	16,017	34,080	9	1	10	137	1.5	15.2	9.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...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\* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans, also, is adjusted to, and not employed as a basis of calculation owing to the results of this census under this head not having been received under the authorized form of age classification.



DISTRICTS.		NAMES OF MUNICIPALITIES.		DEATHS AMONG—										DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										Age.										RATIO PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				DEATHS AMONG—										DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										Age.										RATIO PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Burdwan	Burdwan	11	24.2	25.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

R. LIDDERDALE, M.D., Deputy Surgeon-General,  
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,  
The 31st January 1887.

## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of November 1886.

## ORISSA CIRCLE.

## TALDUNDAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAH CANAL, 27 MILES.  
 { MACHGONG " 4 "

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity--Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rûpees.	Tons.	Rupees.	
1	1. Grain	...	12	12	300	12	300	
...	2. Cotton	...	...	...	...	...	...	
1	3. Oilseeds	...	14	14	1,152	14	1,152	
...	4. Salt	...	...	...	...	...	...	
...	5. Piece-goods	...	...	...	...	...	...	
...	6. Metal	...	...	...	...	...	...	
1	7. Building materials	...	$\frac{1}{4}$	$\frac{1}{4}$	2	$\frac{1}{4}$	2	
6	8. Miscellaneous	$\frac{1}{2}$	55	$55\frac{1}{2}$	190	$55\frac{1}{2}$	190	
...	9. Fuel	...	...	...	...	...	...	
...	10. Timber	...	4 No.	4 No.	5	4 No.	5	
...	11. Bamboos	...	200 „	200 „	3	200 „	3	
9	12. Total	$\frac{1}{2}$	$81\frac{1}{4}$ & 204 No.	$81\frac{3}{4}$ & 204	1,652	$81\frac{3}{4}$ & 204 No.	1,652	
47	13. Total of same month last year	...	...	122	2,943	122	2,943	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	9	.....	9	Total tollage of month— 24+25+26	27 9 9
15. Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year	103 6 11
16. Total registered tonnage, cargo	77	159	236	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger	.....	.....	.....		
18. Ton-mileage	924	1,908	2,832		
19. Estimated value of cargo	30	1,614	1,644		
20. Number of passengers	.....	.....	.....	1. Balance not recovered on the 1st of the month	1 7 0
21. Rafts, bamboos No.	.....	200	200	2. Tollage per month	27 9 9
22. Do., bullahs	.....	4	4		
23. Estimated value of rafts	.....	8	8		
24. Tollage on boats Rs.	5-15-6	21-3-3	27-2 9	3. Total	29 0 9
25. Compounded tollage on boats Rs.	.....	.....	.....		
26. Tollage on rafts	.....	0-7-0	0-7 0	4. Amount credited in the accounts of the month	1 7 0
27. Total tollage on boats per ton-mile	.....	.....	1-84 pie		
28. Ditto on rafts per 100 cubic feet	.....	.....	.....	5. Balance due at the end of the month	27 9 9

## KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
27	1. Grain ...	72	219	291	9,630	291	9,630	
.....	2. Cotton ...	.....	.....	.....	...	...	...	
10	3. Oilseeds ...	165	178	343	34,670	343	34,670	
6	4. Salt ...	24	9	33	4,200	33	4,200	
.....	5. Piece-goods ...	.....	.....	.. ...	.....	.....	...	
1	6. Metal ...	4	.....	4	5,000	4	5,000	
13	7. Building materials ...	71	8	79	610	79	610	
110	8. Miscellaneous ...	1,211	263	1,474	1,91,170	1,456	1,90,670	
15	9. Fuel ...	124	.....	124	1,070	124	1,070	
5 rafts	10. Timber ...	.....	621 No.	621 No.	915	621 No.	915	
1 raft	11. Bamboos ...	.....	200 „	200 „	5	200 „	5	
182 & 6 rafts.	12. Total ...	1,671	{ 677 & 821 No.	2,348 & 821 No.	{ 2,47,270	{ 2,330 & 821 No.	2,46,770	
698	13. Total of same month last year ...	...	...	3,024	4,75,140	3,018	4,75,110	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo ... No.	120	62	182	Total tollage of month— 24 + 25 + 26 ...	2,476 14 2
15. Total number of boats plying passenger ... No.	43	29	72	Total tollage of same month last year ...	4,418 8 3
16. Total registered tonnage, cargo ...	1,671	677	2,348	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger ...	985	750	1,735		
18. Ton-mileage ...	76,031	35,316	1,11,347		
19. Estimated value of cargo Rs.	2,07,610	38,740	2,46,350		
20. Number of passengers No.	1,466	648	2,114		
21. Rafts, bamboos „	.....	621	621	1. Balance not recovered on the 1st of the month ...	4,230 11 4
22. Do, timbers „	.....	200	200	2. Tollage per month ...	2,476 14 2
23. Estimated value of rafts Rs.	.....	920	920		
24. Tollage on boats „	1,494-13-1	941-15-0	2,436-12-1	3. Total ...	6,707 9 6
25. Compounded tollage on boats ...	.....	.....	.....		
26. Tollage on rafts Rs.	.....	40-2-1	40-2-1	4. Amount credited in the accounts of the month ...	3,156 8 4
27. Total tollage on boats per ton-mile ...	.....	.....	0-0-4 2		
28. Ditto on rafts per 100 cubic feet ...	.....	.....	.....	5. Balance due at the end of the month ...	3,551 1 2



## HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	
26	1. Grain ...	57	1	58	4,970	58	4,970
...	2. Cotton ...	...	...	...	...	...	...
5	3. Oilseeds ...	23	...	23	1,960	23	1,960
47	4. Salt ...	...	118	118	9,990	118	9,990
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
2	7. Building materials ...	4	...	4	300	4	300
32	8. Miscellaneous ...	57	46	103	14,810	103	14,810
48	9. Fuel ...	251	...	251	700	251	700
3 rafts	10. Timbers ...	916 No.	...	916 No.	3,660	916 No.	3,660
...	11. Bamboos ...	...	...	...	...	...	...
160 & 3 rafts.	12. Total ...	392 & 916 No.	165	557 & 916 No.	36,390	557 & 916 No.	36,390
289	13. Total of same month last year ...	...	...	610	49,170	610	49,170

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo ... No.	94	66	160	Total tollage of month— 24 + 25 + 26 ...	564 5 6
15. Total number of boats plying passenger ... No.	2	3	5	Total tollage of same month last year ...	460 14 3
16. Total registered tonnage, cargo ...	392	165	557	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger ...	4	11	15		
18. Ton-mileage ...	11,898	5,460	17,358	Rs. A. P.	
19. Estimated value of cargo ...	18,390	14,840	32,730		
20. Number of passengers ...	11	22	33	1. Balance not recovered on the 1st of the month ...	215 15 6
21. Rafts, timbers No.	916	...	916	2. Tollage per month ...	564 5 6
22. Do., bullahs "	...	...	...	3. Total ...	780 5 0
23. Estimated value of rafts ...	3,660	...	3,660	Rs. A. P.	
24. Tollage on boats ...	269-10-6	185-9-3	455-3-9		
25. Compounded tollage on boats ...	...	...	...	4. Amount credited in the accounts of the month ...	526 15 0
26. Tollage on rafts ...	109-1-9	...	109-1-9	Rs. A. P.	
27. Total tollage on boats per ton-mile ...	...	...	0-0-5-0		
28. Total tollage on rafts per 100 cubic feet ...	...	...	...	5. Balance due at the end of the month ...	253 6 0



## HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	
4	1. Grain	22	10	32	1,532	32	1,532
.....	2. Cotton	.....	.....	.....	.....	.....	.....
1	3. Oilseeds	7	.....	7	153	7	153
1	4. Salt	.....	6	6	360	6	360
.....	5. Piece-goods	.....	.....	.....	.....	.....	.....
.....	6. Metal	.....	.....	.....	.....	.....	.....
14	7. Building materials	217	.....	217	.....	.....	.....
34	8. Miscellaneous	33	141	174	2,045	60	2,045
.....	9. Fuel	.....	.....	.....	.....	.....	.....
1	10. Timber	.....	.....	.....	170	.....	170
.....	11. Bamboos	.....	.....	.....	.....	.....	.....
55	12. Total	279	157	436	4,260	105	4,260
128	13. Total of same month last year	.....	.....	68.	5,952	68	5,952

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	25	28	53	Total tollage of month— 24 + 25 + 26	69 14 9
15. Total number of boats plying passenger No.	2	.....	2	Total tollage of same month last year	38 4 9
16. Total registered tonnage, cargo	265	157	422	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger	14	.....	14		
18. Ton-mileage	3,111	2,099	5,210		
19. Estimated value of cargo	3,438	652	4,090		Rs. A. P.
20. Number of passengers	166	150	316	1. Balance not recovered on the 1st of the month	.....
21. Rafts, bamboos c. ft.	.....	.....	.....	2. Tollage per month	69 14 9
22. Do., bullahs	34	.....	34	3. Total	69 14 9
23. Estimated value of rafts	170	.....	170	4. Amount credited in the accounts of the month	62 7 0
24. Tollage on boats Rs.	49-15-0	16 0-3	65-15-3	5. Balance due at the end of the month	7 7 9
25. Compounded tollage on boats Rs.	.....	.....	.....		
26. Tollage on rafts	3-15-6	.....	3-15-6		
27. Total tollage on boats per ton-mile	.....	.....	0-0-2-4		
28. Ditto on rafts per 100 cubic feet	.....	.....	11-7-0		



## SOUTH-WESTERN CIRCLE.

## MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
665	1. Grain ...	3,988	274	4,262	1,63,335	4,262	1,63,335	
2	2. Cotton ...	.....	11	11	2,000	11	2,000	
14	3. Oilseeds ...	.....	103	103	9,987	103	9,987	
89	4. Salt ...	.....	961	961	69,252	961	69,252	
14	5. Piece-goods ...	7	12	19	29,050	19	29,050	
5	6. Metal ...	21	2	23	18,200	23	18,200	
29	7. Building materials	329	15	344	830	344	830	
279	8. Miscellaneous ...	655	248	903	1,18,686	903	1,18,686	
25	9. Fuel ...	179	35	214	7,090	214	7,090	
106 rafts	10. Timber ...	21,222 c. ft.	605 c. ft.	21,827 c. ft.	18,283	21,827 c. ft.	18,283	
19 „	11. Bamboos ...	337 „	25 „	362 „	271	362 „	271	
1,122 and 125 rafts.	12. Total ...	5,179 and 21,559 c. ft.	1,661 and 630 c. ft.	6,840 and 22,189 cft.	4,36,984	6,840 and 22,189 c ft.	4,36,984	
4,145	13. Total of same month last year	...	...	9,371	7,05,543	9,371	7,05,543	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	872	250	1,122	Total tollage of month— 24 + 25 + 26	6,569 5 0
15. Total number of boats plying passenger No.	648	682	1,330		
15½. Total number of boats plying empty No.	323	551	874	Total tollage of same month last year	10,483 10 9
16. Total registered tonnage, cargo ...	11,250	3,846	15,096		
17. Total registered tonnage, passenger ...	3,552	3,373	6,925		
17½. Total registered tonnage, empty ...	1,093	1,891	2,984		
18. Ton-mileage ...	3,87,670	1,68,875	5,56,545		
19. Estimated value of cargo ...	2,47,929	1,70,501	4,18,430		
20. Number of passengers ...	4,956	7,611	12,567		
21. Rafts, bamboos c. ft.	337	25	362		
22. Do., bullahs „	21,222	605	21,827		
23. Estimated value of rafts ...	17,298	1,256	18,554		
24. Tollage on boats Rs.	4,291-3-3	1,933-10-6	6,224 13-9		
25. Compounded tollage on boats ... Rs.	.....	.....	.....		
26. Tollage on rafts „	335-13-0	8-10-3	344-7-3		
27. Total tollage on boats per ton-mile Pie	2-2	2 2	2 2		
28. Ditto on rafts per 100 cubic feet Rs.	1-5	.....	1 5		
Memorandum of Tollage.					
					Rs. A. P.
1. Balance not recovered on the 1st of the month					2,049 4 11
2. Tollage per month ...					6,569 5 0
3. Total ...					8,618 9 11
4. Amount paid into Treasury during the month					6,786 7 3
5. Balance due at the end of the month					1,832 2 8

## HIDGELLÉE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
296	1. Grain ...	1,351	7	1,358	48,881	1,358	48,881
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
.....	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
29	4. Salt ...	.....	109	109	15,195	109	15,195
10	5. Piece-goods ...	.....	11	11	8,000	11	8,000
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
19	7. Building materials ...	61	107	168	1,177	168	1,177
542	8. Miscellaneous ...	254	219	473	52,532	473	52,532
9	9. Fuel ...	9	43	52	328	52	328
24 rafts	10. Timber ...	6,630 c.ft.	3,840 c. ft.	10,470 c. ft.	10,485	10,470 c. ft.	10,485
1 raft	11. Bamboos ...	.....	225 „	225 „	22	225 „	22
905 & 25 rafts	12. Total ...	1 675 & 6,630 c. ft.	496 & 4,065 c. ft.	2,171 & 10,695 c. ft.	1,36,620	2,171 & 10,695 c. ft.	1,36,620
1,107	13. Total of same month last year ...	.....	.....	2,601	1,62,462	2,601	1,62,462

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	456	449	905	Total tollage of month— 24 + 25 + 26 ...	1,977 7 0
15. Total number of boats plying passenger No.	51	60	111	Total tollage of same month last year	2,000 7 3
16. Total registered tonnage, cargo ...	3,841	2,441	6,282	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger ...	226	267	493		
18. Ton-mileage ...	66,759	42,743	1,09,502		Rs. A. P.
19. Estimated value of cargo ...	65,050	61,063	1,26,113	1. Balance not recovered on the 1st of the month ...	1,135 11 9
20. Number of passengers ..	347	456	803	2. Tollage per month ...	1,977 7 0
21. Rafts, bamboos c. ft.	.....	225	225	3. Total ...	3,113 2 9
22. Do., bullahs „	6,630	3,840	10,470	4. Amount paid into treasury during the month ...	2,496 12 0
23. Estimated value of rafts ...	4,550	5,957	10,507	5. Balance due at the end of the month ...	616 6 9
24. Tollage on boats Rs.	1,094-15-0	669-6-0	1,764-5-0		
25. Compounded tollage on boats ... Rs.	.....	151-2-6	151-2-6		
26. Tollage on rafts „	27-10 0	34-5-6	61-15-3		
27. Total tollage on boats per ton-mile ...	.....	.....	0-0-3		
28. Ditto on rafts per 100 cubic feet ...	.....	.....	0-0-9		

## SONE CIRCLE.

## PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
6	1. Grain ...	.....	54	54	2,200	54	2,200	
4	2. Cotton ...	.....	11	11	7,600	11	7,600	
16	3. Oilseeds ...	.....	326	326	53,566	326	53,566	
1	4. Salt ...	55	.....	55	5,291	55	5,291	
33	5. Piece-goods ...	202	20	222	48,401	222	48,401	
.....	6. Metal ...	8	.....	8	2,814	8	2,814	
18	7. Building materials ...	2	113	115	876	93	676	
48	8. Miscellaneous ...	90	294	384	39,082	384	39,082	
1	9. Fuel ... { boat	.....	5	5	150	5	150	
	raft	.....	73	73	655	73	655	
Rafts {	10. Timber ...	.....	3	3	13	3	13	
	11. Bamboos ...	.....	574	574	9,551	574	9,551	
127	12. Total ...	357	1,473	1,830	1 70,199	1 808	1 69,999	
202	13. Total of same month last year ...	...	...	1, 01	66,489	1,028	65,554	
		Up.	Down.	Total.			Rs. A. P.	
14.	Total number of boats plying cargo No.	52	75	127	Total tollage of month— 24 + 25 + 26 ...		1,779 13 6	
15.	Total number of boats plying passenger No.	6	7	13				
15½.	Total number of empty boats ...	55	21	76	Total tollage of same month last year ...		1,211 15 6	
16.	Total registered tonnage, cargo	606	1,368	1,974				
17.	Total registered tonnage, passenger	122	166	288				
17½.	Ditto of empty boats ...	232	121	353	Memorandum of Tollage.			
18.	Ton-mileage ...	51,406	1,03,955	1,55,361			Rs. A. P.	
19.	Estimated value of cargo ...	54,439	1 05,541	1,59,980	1. Balance not recovered on the 1st of the month ...		367 6 0	
20.	Number of passengers ...	372	592½	964½	2. Tollage per month ...		1 779 13 6	
21.	Rafts, bamboos c. ft.	.....	86,087	86,087				
22.	Do., bullahs ..	.....	5,676	5,676				
23.	Estimated value of rafts ...	.....	10,219	10,219	3. Total ...		2,147 3 6	
24.	Tollage on boats Rs.	399-0-9	872-8-3	1,271-9-0				
25.	Compounded tollage on boats Rs.	75	75	150	4. Amount credited in the accounts of the month ...		2,025 5 9	
26.	Tollage on rafts ..	.....	358-4-6	358-4-6				
27.	Total tollage on boats per ton-mile ...	.....	.....	1-7 pies.				
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	0-6-2	5. Balance due at the end of the month ...		121 13 9	



## ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
38	1. Grain ...	138	62	200	10,607	200	10,607	
..	2. Cotton ...	.....	.....	.....	.....	.....	.....	
19	3. Oilseeds ...	.....	97	97	8,674	97	8,674	
24	4. Salt ...	140	.....	140	12,192	140	12,192	
1	5. Piece-goods (shawls) ...	14	..	14	19,780	14	19,780	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
25	7. Building materials ...	.....	201	201	379	43	196	
37	8. Miscellaneous ...	25	145	170	40,839	170	40,839	
2	9. Fuel ...	.....	22	22	306	22	306	
Rafts	10. Timber ...	.....	895	895	3,077	895	3,077	
	11. Bamboos ...	.....	18	18	272	18	272	
146	12. Total ...	317	1,440	1,757	96,126	1,599	95,943	
167	13. Total of same month last year ...	...	...	1,653	91,941	1,638	91,877	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	52	94	146	Total tollage of month— 24 + 25 + 26 ...	889 0 9
15. Total number of boats plying passenger No.	12	12	24		
15½. Total number of empty boats No.	37	24	61	Total tollage of same month last year ...	1,309 1 6
16. Total registered tonnage, cargo ...	495	942	1,437		
17. Total registered tonnage, passenger ...	439	440	879	<i>Memorandum of Tollage.</i>	
17½. Total registered tonnage, empty ...	103	80	183		
18. Ton-mileage ...	37,313	70,260	1,07,573	1. Balance not recovered on the 1st of the month ...	85 2 9
19. Estimated value of cargo ...	45,957	46,820	92,777	2. Tollage per month ...	889 0 9
20. Number of passengers ...	1,097	1,252	2,349		
21. Rafts, bamboos c. ft. ....	.....	2,725	2,725		
22. Do., bullahs ..	.....	67,122	67,122		
23. Estimated value of rafts ...	.....	3,349	3,349		
24. Tollage on boats Re.	271-7-9	353-3-9	624-11-6	3. Total ...	974 3 6
25. Compounded tollage on boats Rs.	100-0-0	100-0-0	200-0-0	4. Amount credited in the accounts of the month ...	903 9 3
26. Tollage on rafts ..	.....	64-5-3	64-5-3		
27. Total tollage on boats per ton-mile ...	.....	.....	1-4 pies		
28. Ditto on rafts per 100 cubic feet ...	.....	.....	1-5 as.	5. Balance due at the end of the month ...	70 10 3

## BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
15	1. Grain ...	2	231	233	20,708	233	20,708
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	1	20	21	2,928	21	2,928
2	4. Salt ...	4	5	9	848	9	848
.....	5. Piece-goods ...	12	1	13	23,862	13	23,862
.....	6. Metal ...	1	1	2	2,550	2	2,550
15	7. Building materials ...	47	53	100	3,375	7	250
13	8. Miscellaneous ...	8	165	173	24,090	173	24,090
Rafts {	9 Fuel ...	.....	.....	.....	.....	.....	.....
	10. Timber ...	.....	149	149	4,838	149	4,838
	11. Bamboos ...	.....	165	165	2,500	165	2,500
46	12. Total ...	75	790	865	85,699	772	82,574
83	13. Total of same month last year ...	.....	.....	1,029	53,209	1,029	53,209
		Up.	Down.	Total.			
14.	Total number of boats ply- ing cargo ... No.	11	31	43	Rs. A. P.		
15.	Total number of boats ply- ing passenger ... No.	9	9	18	Total tollage of month— 24 + 25 + 26 ...		
15½.	Total number of empty boats ... No.	31	2	33	437 5 6		
16.	Total registered tonnage, cargo ...	92	937	1,029	Total tollage of same month last year ...		
17.	Total registered tonnage, passenger ...	243	243	486	743 8 0		
17½.	Total registered tonnage, empty boats ...	90	7	97	Memorandum of Tollage.		
18.	Ton-mileage ...	6,510	24,027	30,537			
19.	Estimated value of cargo ...	24,958	53,403	78,361	Rs. A. P.		
20.	Number of passengers	635	825	1,460	1. Balance not recovered on the 1st of the month ...		
21.	Rafts, bamboos ... c. ft.	.....	24,820	24,820	30 10 0		
22.	Do., bullahs ... "	.....	11,208	11,208	2. Tollage per month ...		
23.	Estimated value of rafts ...	.....	7,338	7,338	437 5 6		
24.	Tollage on boats ... Rs.	28-13-0	148-1-0	176-14-0	3. Total ...		
25.	Compounded tollage on boats ... Rs.	75	75	150	467 15 6		
26.	Tollage on rafts ... "	.....	110-7-6	110-7-6	4. Amount credited in the accounts of the month ...		
27.	Total tollage on boats per ton-mile ...	.....	.....	2½ pies	428 12 9		
28.	Ditto on rafts per 100 cubic feet ...	.....	.....	0-4-11	5. Balance due at the end of the month ...		
					39 2 9		

## ABSTRACT FOR THE MONTH OF NOVEMBER 1886, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

CANAL.	TRAFFIC, 1886-87.						TRAFFIC, 1885-86.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
<i>Orissa Circle.</i>	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Taldunda Canal System ...	27	9	9	1,500	11	4	103	6	11	933	7	8	
Kendrapara Canal System ...	2,476	14	2	24,969	11	1	4,418	8	3	27,252	4	1	
High Level Canal, Range I	554	5	6	4,471	14	6	460	14	3	4,229	7	2	
Ditto, Range II	215	9	6	2,147	4	9	178	0	3	1,865	2	10	
Ditto, Range III	69	14	9	1,263	8	3	38	4	9	733	13	9	
Total Orissa Circle ...	3,354	5	8	34,353	1	11	5,199	2	5	35,014	3	6	
<i>South-Western Circle.</i>													
Midnapore Canal ...	6,569	5	0	74,115	8	3	10,483	10	9	87,117	4	6	
Hidgellee Tidal Canal ...	1,977	7	0	38,605	14	9	2,000	7	3	37,677	10	9	
Total South-Western Circle	8,546	12	0	1,12,721	7	0	12,484	2	0	1,24,794	15	3	
<i>Sone Circle.</i>													
Patna Canal System ...	1,779	13	6	14,807	1	3	1,211	15	6	14,553	5	0	
Arrah ditto ...	889	0	9	12,613	14	4	1,309	1	6	10,603	11	7	
Buxar ditto ...	437	5	6	5,080	4	4	743	8	0	4,357	1	3	
Total Sone Circle ...	3,106	3	9	32,501	3	11	3,264	9	0	29,514	1	10	
GRAND TOTAL ...	15,007	5	5	1,79,575	12	10	20,947	13	5	1,89,323	4	7	

## GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1886-87.						TRAFFIC, 1885-86.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle..</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	495	132	445 2 1	6,730	12,411	7,536 6 0	583	2,183	828 12 3	8,790	27,288	11,542 9 1
Total Orissa Circle ...	495	132	445 2 1	6,730	12,411	7,536 6 0	583	2,183	828 12 3	8,790	27,288	11,542 9 1

Transport service on the Midnapore and Sone Canals is under contract.

## TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1886-87.				EARNINGS, 1885-86.				REMARKS.			
	During the month.		To end of the month.		During the month.		To end of the month.					
	Rs	A.	P.	Rs.	A.	P.	Rs	A.	P.			
Orissa Canals ...	3,799	7	9	41,889	7	11	6,027	14	8	46,556	12	7
Midnapore Canal	6,569	5	0	74,115	8	3	10,483	10	9	90,538	15	9
Hidgellée Tidal Canal	1,977	7	0	38,605	14	9	2,000	7	3	37,677	10	9
Sone Canals ...	3,106	3	9	32,501	3	11	3,658	9	6	33,073	0	0
Total	15,452	7	6	1,87,112	2	10	22,170	10	2	2,07,846	7	1

A. D. McARTHUR, Major, R.E.,  
Under-Secy. to the Govt. of Bengal.CALCUTTA,  
The 31st January 1887.



## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

## SOUTH-WESTERN CIRCLE.

## ORISSA COAST CANAL.

LENGTH OF CANAL OPEN, 91 MILES.

Statement showing Quantities of Goods carried during the month of December 1886.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity-Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
134	1. Grain ...	992	21	1,013	32,168	1,013	32,168	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	1	.....	1	10	1	10	
15	4. Salt ...	.....	93	93	5,618	93	5,618	
4	5. Piece-goods ...	.....	18	18	5,200	18	5,200	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
6	7. Building materials ...	9	10	19	85	19	85	
459	8. Miscellaneous ...	118	69	187	17,691	187	17,691	
3	9. Fuel ...	7	3	10	69	10	69	
9 rafts	10. Timber ...	226 c. ft.	.....	226 c. ft.	215	226 c. ft.	215	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
622 & 9 rafts	12. Total ...	1,127 & 226 c. ft.	214	1,341 & 226 c. ft.	61,056	1,341 & 226 c. ft.	61,056	
695	13. Total of same month last year ...	.....	.....	1,343	52,601	1,343	52,601	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo ... No.		287	335	622	Total tollage of month—			
15. Total number of boats plying passenger ... No.		37	31	68	24+25+26 ...			1,645 7 6
15a. Ditto ditto empty ...		10	10	20	Total tollage* of same month last year			1,407 2 0
16. Total registered tonnage, cargo ...		2,454	1,683	4,137	Memorandum of Tollage.			
17. Total registered tonnage, passenger ...		200	126	326				
17a. Ditto ditto empty ...		12	64	76				
18. Ton mileage ...		54,574	36,903	91,477	1. Balance not recovered on the 1st of the month ...			528 1 3
19. Estimated value of cargo ...		34,257	26,584	60,841	2. Tollage per month ...			1,645 7 6
20. Number of passengers ...		223	218	441				
21. Rafts, bamboos... c. ft.		.....	.....	.....				
22. Do., bullahs ...		226	.....	226	3. Total ...			2,173 8 9
23. Estimated value of rafts ...		215	.....	215				
24. Tollage on boats Rs.		922-2-6	600-10-6	1,522-13-0				
25. Compounded tollage on boats Rs.		54-6-9	56-10-9	111-1-6	4. Amount paid into treasury during the month ...			1,710 9 6
26. Tollage on rafts ..		11-9-0	.....	11-9-0				
27. Total tollage on boats per ton-mile ...		.....	.....	0-0-3				
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	5 1-10	5. Balance due at the end of the month ...			462 15 3

CALCUTTA,  
The 1st February 1887.

A. D. McARTHUR, Major, R.E.,

Under-Secy. to the Govt. of Bengal

## CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 29th January 1887,  
compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 29TH JANUARY 1887.			WEEK ENDING SATURDAY, THE 30TH JANUARY 1886.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,745	2,62,667	5,066	1,637	3,39,973	6,433
Jute ...	86	56,126	1,000	91	52,875	959
Firewood ...	105	64,850	877	185	91,150	1,238
Other articles ...	910	2,20,795	3,350	929	2,14,434	3,294
Total ...	2,846	6,04,438	10,293	2,842	6,98,432	11,924

## Eastern Bengal State Railway.

*Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of November 1886 as compared with the same month of the previous year*

STAPLES.	1886.		1885.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1886.	1885.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Betelnuts	39	698	30	47	737	77	660	.....
Coal and coke	1,874	47	4,038	1,527	2,381	5,565	.....	3,204
Cotton, raw	50	40	57	108	70	165	.....	95
Cotton, manufactured—								
1.—Twist and yarn (European)	2,328	129	2,746	151	2,457	2,897	.....	440
2.—Ditto do. (Indian)								
3.—Piece-goods (European)								
4.—Ditto do. (Indian)								
Fibrous Products—								
1.—Jute (screwed)	1	4,229	.....	4,270	4,229	4,270	.....	41
2.—Jute (unscrewed)		27,345		32,188	27,546	32,188	.....	4,642
3.—Jute manufactured (gunny-bags and cloths)	61	1,776	113	1,215	1,837	1,328	509	.....
Grain and Pulse—								
1.—Grain and pulse	176	1,121	302	1,004	1,297	1,306	.....	9
2.—Rice, husked	241	2,722	326	2,535	2,953	2,860	193	.....
Hides and Skins—								
1.—Hides of cattle	19	592	6	978	611	984	.....	373
2.—Skins of sheep, goats and small animals								
Metals and manufactures of—								
1.—Brass and copper	823	62	609	29	945	638	307	.....
2.—Iron								
3.—Other metals								
Oils	448	18	259	10	466	269	197	.....
Provisions—								
1.—Ghee	173	196	220	227	369	447	.....	78
2.—Other kinds								
Railway materials	1,016	2,113	1,386	258	3,129	1,644	1,485	.....
Salt	3,911	6	2,932	1	3,917	2,933	984	.....
Seeds—								
1.—Oilseeds—								
a.—Linseed	275	195	73	711	470	784	.....	314
b.—Mustard and rape								
c.—Til or ringelly								
d.—Other oil seeds								
Sugar—								
1.—Refined	360	136	265	195	496	460	36	.....
2.—Unrefined								
Tea—								
1.—Indian	.....	1,635	.....	1,094	1,635	1,094	541	.....
2.—Foreign								
Tobacco	53	632	48	811	685	859	.....	174
Wood—								
1.—Timber	2,009	40	1,913	31	2,049	1,944	105	.....
2.—Firewood								
All other articles of merchandise—								
1.—Unmanufactured	1,843	1,185	1,582	1,500	3,028	3,082	.....	54
2.—Manufactured								
Hay, straw, wooloo (case section)	397	.....	295	.....	397	295	102	.....
Total	16,137	45,557	17,199	48,890	61,694	66,089	5,029	8,424

## Comparative statement of traffic carried over the Eastern Bengal State Railway for the month of November 1886.

The total quantity of goods carried over the above railway during November 1886 was 61,694 tons, which, as compared with the quantity carried during the corresponding period of the previous year, shows a decrease of 4,395 tons.

## INCREASES.

The principal increases are in the following staples:—

Betelnuts ..... 660 tons.  
This abnormal increase is attributable to the Benares-Cuttack Railway's large shipments having been received *via* Khulna, remarks on which will be found in report on the fluctuation of traffic on that line.  
Metals ..... 307 tons.  
The decrease in this article is attributable to the increased demand for such items as corrugated iron, iron beams, &c., for building purposes, and an increasing trade in metals and hardware generally.  
Railway materials ..... 1,485 tons.  
This increase is attributable to the extension of railway and renewing lines already open generally in the Eastern district.  
Salt ..... 984 tons.  
Exhaustion of stocks at out-stations reached by the Eastern Bengal State and connected Railways, augmented by lower freights per rail than obtain by water, accounts for the increase in quantity carried.  
Tea ..... 541 tons.  
The fact of the line having been undergoing repairs after having been submerged during the period under comparison the previous year, and the gradual extension of growing acreage, will account for the increase.

## DECREASES.

The principal decreases are—

Coal and coke ..... 3,204 tons.  
This decrease is accounted for by assuming that up-country stations had, during the month under reference, sufficient stocks for present consumption, added to the fact that coal may be sent cheaper and with less handling by water. It often happens that when any of the River Steamer Company's have not sufficient cargo to fill up a flat completely, they will fill up with coal and coke at a very nominal rate.  
Cotton ..... 440 tons.  
The market reports show that "prices are nominal with sellers, and no buyers, so that business has been at a stand-still during the past week;" this has no doubt affected the traffic in this staple.  
Jute ..... 4,682 tons.  
Fluctuation of prices in the home market in this produce is to be expected, and it is owing to a want of demand, the market being quiet and prices ruling being above home values, that has caused this falling off.  
Hides ..... 373 tons.  
As in last report, the reason given for the increase in this article was increased prices in the Calcutta market, so this may be assumed as not an unlooked for decrease in the result of ordinary fluctuation of traffic.  
Seeds ..... 314 tons.  
Dullness of the Calcutta market for shipment and falling in rates have produced this result.

CALCUTTA, the 28th January 1887.

F. P. QUINLAN, Examiner of Accounts.



## Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of November 1886, as compared with the same month of the previous year.*

STAPLES.	1886.		1885.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1886.	1885.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Betelnuts ...	1	688	...	29	689	29	660	...
Coal and coke ...	351	1	280	...	352	280	72	...
Cotton, raw ...	3	1	7	3	4	10	...	6
Cotton, manufactured—								
1.—Twist and yarn (European) ...	136	...	189	1	136	190	...	54
2.—Ditto do. (Indian) ...								
3.—Piece-goods (European) ...								
4.—Ditto do. (Indian) ...								
Fibrous products—								
1.—Jute (screwed) ...	...	34	...	8	34	8	26	...
2.—Jute (unscrewed) ...	1	605	...	209	606	209	397	...
3.—Jute manufactured (gunny-bags and cloths) ...	13	2	8	2	15	10	5	...
Grain and Pulse—								
2.—Grain and pulse ...	78	16	69	4	94	73	21	...
4.—Rice, husked ...	5	109	16	36	114	52	62	...
Hides and Skins—								
1.—Hides of cattle ...	...	31	...	47	31	47	...	16
2.—Skins of sheep, goats, and small animals ...								
Metals and manufactures of—								
1.—Brass and copper ...	29	9	13	4	29	17	12	...
2.—Iron ...								
3.—Other metals ...								
Oils ...	97	...	42	...	97	42	55	...
Provisions—								
1.—Ghee ...	17	19	25	14	36	39	...	3
2.—Other kinds ...								
Railway materials ...	127	19	65	14	146	79	67	...
Salt ...	151	...	164	...	151	164	...	13
Seeds—								
1.—Oilseeds—								
a.—Linseed ...	175	...	59	25	175	84	91	...
b.—Mustard and rape ...								
c.—Til or gingilly ...								
d.—Other oilseeds ...								
2.—Other seeds—								
a.—Indigo seed ...	...	...	...	...	...	...	...	...
b.—Tea seed ...								
c.—Other kinds ...								
Sugar—								
1.—Refined ...	13	93	39	170	106	209	...	103
2.—Unrefined ...								
Tobacco ...	32	12	40	14	44	54	...	10
Wood—								
1.—Timber ...	18	9	5	9	27	14	13	...
2.—Firewood ...								
All other articles of merchandise—								
1.—Unmanufactured ...	184	153	107	93	337	200	137	...
2.—Manufactured ...								
Total ...	1,422	1,801	1,128	682	3,223	1,810	1,618	205

## Comparative statement of traffic over the Bengal Central Railway during the month of November 1886.

## INCREASES.

The total tonnage carried over the above railway during the period under reference was 3,323 tons, which, as compared with the corresponding period of the previous year, shows a net increase of 1,415 tons.

The principal increases are in the following items, viz.—

Betelnuts ... 660 tons.

This increase is chiefly from Khulna, and may be attributed to low freights, comparative safety of transit, and facilities for bringing such produce, which previously found its way by water, to the railways, added to traffic canvassing being successful.

Jute ... 423 tons.

This is attributable to the steady expansion of the jute trade in the districts tapped by the Bengal Central Railway and the increased facilities of the railway and combined steamer services in getting the produce to the Calcutta market.

There was a slight increase in oils, railway material, coal and coke, rice and seeds, during the period under reference, but the increases are not of sufficient importance to call for special notice.

## DECREASES.

Sugar ... 103 tons.

The remarks on the decrease of this staple, made last month, apply equally for the month under review.

There was a slight decrease in cotton (54 tons) during November, which does not call for special notice. On the whole, the traffic on the line may be considered as satisfactory. Though the increase shown is not large, the traffic appears to be steadily growing.

CALCUTTA, the 27th January 1887.

F. P. QUINLAN, Examiner of Accounts.

## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 1,515 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	234,193	2,91,764 14 0	23,61,627 10	5,88,288 1 6	17,904 8 0	8,07,957 7 6	66,722½	104,613½	171,336½
Or per mile of railway ...	.....	192 9 4	.....	388 5 0	11 13 1	592 11 5	.....	.....	.....
For previous 2 weeks of half-year ...	451,005	5,21,304 2 0	57,96,712 20	14,30,371 0 3	40,052 3 0	19,91,737 5 3	140,478	234,354½	374,832½
Total for 3 weeks ...	685,198	8,13,069 0 0	81,58,330 30	20,18,659 1 9	57,966 1 0	28,80,694 12 9	207,200½	338,967½	546,167½
COMPARISON.									
Total for corresponding week of previous year ...	220,222	2,81,034 6 7	26,88,360 20	6,07,337 12 0	23,248 4 7	9,72,220 7 2	71,486	198,672	189,158
Per mile of railway corresponding week of previous year ...	.....	185 14 4	.....	440 7 10	15 5 6	641 11 8	.....	.....	.....
Total to corresponding date of previous year ...	687,649½	8,27,347 4 2	84,99,173 30	22,45,973 10 6	70,768 14 9	31,44,089 13 5	223,871	354,323	578,194

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
1,515	Rs. 9,72,220	Rs. 642	1,515	Rs. 8,97,957	Rs. 593	1,515	Rs. 3,75,45,003	Rs. 24,783	1,515	Rs. 3,72,81,747	Rs. 24,608	.....	Rs. 2,64,246

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,509	5,526 10 0	42,326 20	2,714 1 0	35 10 0	8,276 5 0	1,712	682	2,394
Or per mile of railway ...	184	96 9 11	740 0	47 7 2	0 10 0	144 11 1	.....	.....	.....
For previous 2 weeks of half-year ...	24,921	12,212 13 0	84,882 30	5,919 15 0	68 5 0	18,201 1 0	3,644	1,486	5,130
Total for 3 weeks ...	35,430	17,739 7 0	1,27,209 10	8,634 0 0	103 15 0	26,477 6 0	5,356	2,168	7,524
COMPARISON.									
Total for corresponding week of previous year ...	10,762	5,241 4 1	81,081 20	2,646 1 0	44 3 0	7,931 8 1	1,939	649	2,588
Per mile of railway corresponding week of previous year ...	188	91 10 1	1,417 20	46 4 2	0 12 4	138 10 7	.....	.....	.....
Total to corresponding date of previous year ...	39,709	21,040 13 11	1,56,751 0	7,452 14 0	206 6 9	28,700 2 8	6,309	2,670	8,979

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
57	Rs. 7,932	Rs. 139	57½	Rs. 8,276	Rs. 145	57½	Rs. 3,95,896	Rs. 6,974	57½	Rs. 4,25,889	Rs. 7,408	Rs. 29,994	.....

## DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,857	478 14 0	14,793 20	336 4 0	10 4 0	825 6 0	345½	148	493½
Or per mile of railway ...	.....	39 14 6	.....	28 0 4	0 13 8	68 12 6	.....	.....	.....
For previous 2 weeks of half-year ...	4,909	822 3 0	42,741 0	1,030 5 0	17 6 0	1,809 14 0	733½	324	1,057½
Total for 3 weeks ...	7,766	1,301 1 0	57,534 20	1,366 9 0	27 10 0	2,695 4 0	1,079	472	1,551
COMPARISON.									
Total for corresponding week of previous year ...	2,646½	434 4 9	27,597 0	671 9 0	30 11 0	1,136 8 9	145	184	329
Per mile of railway corresponding week of previous year ...	.....	36 3 1	.....	55 15 5	2 8 11	94 11 5	.....	.....	.....
Total to corresponding date of previous year ...	7,686	1,289 6 10	72,438 30	1,814 14 0	87 1 0	3,191 5 10	548	533	1,081

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
12	Rs. 1,137	Rs. 95	12	Rs. 825	Rs. 69	12	Rs. 37,478	Rs. 3,123	12	Rs. 38,611	Rs. 3,168	Rs. 553	.....

## SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,833	4,171 6 0	1,17,511 0	5,563 5 0	157 0 0	9,831 11 0	741	1,129	1,870
Or per mile of railway ...	.....	55 12 3	.....	73 9 2	2 1 7	131 7 0	.....	.....	.....
For previous 2 weeks of half-year ...	10,750	8,230 3 0	2,62,106 20	13,060 10 0	312 5 0	21,603 2 0	1,530	2,496½	4,026½
Total for 3 weeks ...	16,583	12,401 9 0	3,79,617 20	18,563 15 0	469 5 0	31,434 13 0	2,271	3,625½	5,896½
COMPARISON.									
Total for corresponding week of previous year ...	5,388	4,665 4 2	89,797 0	3,587 11 0	79 7 9	8,332 6 11	1,672	1,163	2,835
Per mile of railway corresponding week of previous year ...	.....	62 5 11	.....	47 15 5	1 1 0	111 6 4	.....	.....	.....
Total to corresponding date of previous year ...	16,138	13,709 7 9	2,77,490 0	10,698 14 0	452 14 9	24,861 4 6	4,979	4,241	9,220

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
74½	Rs. 2,338	Rs. 111	74½	Rs. 2,832	Rs. 131	74½	Rs. 2,90,689	Rs. 3,886	74½	Rs. 3,15,291	Rs. 4,215	Rs. 24,602	.....



## TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	17,527	4,430 5 0	8,674 0	265 9 0	5 6 0	4,701 4 0	939	29	968
Or per mile of railway ...	199 1 10		.....	11 15 0	0 3 10	211 4 8	.....	.....	.....
For previous 2 weeks of half-year ...	33,634	8,261 1 0	11,895 30	430 1 0	17 11 0	8,711 13 0	2,055	63	2,118
Total for 3 weeks ...	51,161	12,694 6 0	20,569 30	695 10 0	23 1 0	13,413 1 0	2,994	92	3,086
COMPARISON.									
Total for corresponding week of previous year ...	18,572	4,807 7 3	12,514 0	398 6 0	6 10 9	5,212 8 0	1,071	73	1,144
Per mile of railway corresponding week of previous year ...	.....	216 1 0	.....	17 14 6	0 4 10	234 4 4	.....	.....	.....
Total to corresponding date of previous year ...	54,971½	13,844 5 10	32,175 0	1,187 13 0	17 7 6	18,949 10 4	3,656	310	3,966

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 23RD JANUARY 1886.		TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.		Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.		
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.		Rs.
22½	5,215	234	22½	4,701	211	22½	1,97,553	22½	1,92,503	.....	5,050

## INDIAN MIDLAND RAILWAY.

Approximate Return of Traffic for week ended 22nd January 1887, on 42 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,481	1,154 9 9	40,683 0	3,051 13 0	39 9 0	4,245 15 9	225	690	914
Or per mile of railway ...	.....	27 7 10	.....	72 10 7	0 15 1	101 1 6	.....	.....	.....
For previous 2 weeks of half-year ...	4,431	2,484 11 0	1,09,516 0	7,906 4 0	71 3 0	10,462 2 0	481	1,167	1,638
Total for 3 weeks ...	6,912	5,639 4 9	1,49,399 0	10,958 1 0	110 12 0	14,708 1 9	706	1,856	2,562

Approximate Statement of gross receipts of the Indian Midland Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 1887.		TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.		Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Mean mileage worked.	Total receipts.		
	Rs.	Rs.		Rs.	Rs.		Rs.		Rs.		
.....	.....	.....	42	4,246	101	.....	.....	42	1,08,408	2,581	.....

## EASTERN BENGAL STATE RAILWAY.

*Approximate Return of Traffic for week ending 22nd January 1887, on 234 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	* Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 8 days ...	83,183	41,886 0 0	3,14,413 0	57,353 0 0	5,050 0 0	1,04,289 0 0	11,529	9,420	20,958
Or per mile of railway ...	355	179 0 0	1,344 0	245 0 0	.....	424 0 0	.....	.....	.....
For previous 2 weeks of half-year ...	221,669	75,596 0 0	5,36,316 0	99,520 0 0	9,100 0 0	1,84,216 0 0	24,843	16,909	41,752
Total for 3 weeks ...	304,852	1,17,482 0 0	8,59,729 0	1,56,873 0 0	14,150 0 0	2,88,505 0 0	36,372	26,338	62,710
COMPARISON.									
Total for corresponding 9 days of previous year (audited) ...	82,170	35,020 0 0	3,94,423 0	53,869 0 0	4,113 0 0	93,002 0 0	10,903	10,293	21,196*
Per mile of railway corresponding period of previous year ...	351	150 0 0	1,686 0	239 0 0	.....	380 0 0	.....	.....	.....
Total to corresponding date of previous year ...	275,202	1,14,675 0 0	12,55,167 0	1,65,931 0 0	13,428 0 0	2,94,034 0 0	36,434	31,805	68,239

\* Exclusive of 1,128 miles for ballast train.

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Eastern Bengal State Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
234	93,002	397	234	1,04,289	446	234	36,59,836	15,640	234	42,80,802*	18,320	6,26,966	.....

\* Audited up to week ending 20th November 1886.

## BENGAL CENTRAL RAILWAY.

*Approximate Return of Traffic for week ending 22nd January 1887, on 125 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,522	8,335 0 0	22,230 0	1,396 0 0	37 0 0	9,788 0 0	3,786	1,425	5,211
Or per mile of railway ...	164	67 0 0	178 0	11 0 0	.....	78 0 0	.....	.....	.....
For previous 2 weeks of half-year ...	47,976	16,587 0 0	37,916 0	2,434 0 0	63 0 0	19,087 0 0	8,216	3,008	11,314
Total for 3 weeks ...	68,498	24,942 0 0	60,146 0	3,839 0 0	103 0 0	28,875 0 0	12,002	4,523	16,525
COMPARISON.									
Total for corresponding week of previous year ...	21,243	8,131 0 0	29,102 0	1,450 0 0	39 0 0	9,620 0 0	3,842	1,363	5,210
Per mile of railway corresponding period of previous year ...	170	65 0 0	233 0	12 0 0	.....	77 0 0	.....	.....	.....
Total to corresponding date of previous year ...	65,932	24,577 0 0	96,678 0	4,534 0 0	63 0 0	29,179 0 0	12,810	4,422	17,232

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Bengal Central Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
125	9,620	77	125	9,788	78	125	4,27,217	5,418	125	4,71,982*	5,776	44,765	.....

\* Audited up to week ending 20th November 1886.

## DACCA STATE RAILWAY.

*Approximate Return of Traffic for week ending 22nd January 1887, on 86 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,538	3,930 0 0	9,560 0	1,200 0 0	64 0 0	5,254 0 0	2,189	793	2,982
Or per mile of railway ...	145	46 0 0	111 0	14 0 0	...	60 0 0	...	...	...
For previous 2 weeks of half-year ...	25,040	8,845 0 0	27,778 0	3,030 0 0	90 0 0	11,965 0 0	4,759	1,699	6,458
Total for 3 weeks ...	38,487	12,775 0 0	37,338 0	4,290 0 0	154 0 0	17,219 0 0	6,948	2,492	9,440
COMPARISON.									
Total for corresponding week of previous year (audited) ...	7,706	1,551 0 0	4,558 0	634 0 0	118 0 0	2,303 0 0	635	1,679	2,314
Per mile of railway corresponding period of previous year ...	90	18 0 0	53 0	7 0 0	...	25 0 0	...	...	...
Total to corresponding date of previous year ...	26,454	5,491 0 0	13,417 0	1,813 0 0	318 0 0	7,632 0 0	2,126	4,876	7,002

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Dacca State Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
84	Rs. 2,303	Rs. 27	86	Rs. 5,254	Rs. 61	63	Rs. 83,231	Rs. 31	86	Rs. 2,13,200*	Rs. 59	Rs. 1,29,974	.....

\* Audited up to week ending 20th November 1886.

## NALHATI STATE RAILWAY.

*Approximate Return of Traffic for the week ending 22nd January 1887, on 27½ miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,782	1,144 0 0	10,582 0	619 0 0	16 0 0	1,779 0 0	509	254	763
Or per mile of railway ...	102	42 0 0	385 0	22 11 0	0 9 0	65 4 0	...	...	...
For previous 2 weeks of half-year ...	5,081	1,803 0 0	39,991 0	1,926 0 0	37 0 0	3,766 0 0	1,099	722	1,812
Total for 3 weeks ...	7,863	2,947 0 0	50,573 0	2,545 0 0	53 0 0	5,545 0 0	1,609	976	2,575
COMPARISON.									
Total for corresponding week of previous year ...	2,506	1,002 13 0	12,522 10	783 9 0	31 6 0	1,817 12 0	509	254	763
Per mile of railway corresponding week of previous year ...	94	36 13 0	460 0	28 12 0	1 2 0	66 11 0	...	...	...
Total to corresponding date of previous year ...	7,866	3,063 0 0	30,550 0	2,104 7 0	68 5 0	5,234 12 0	1,672	835	2,507

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Nalhati State Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
27½	Rs. 1,818	Rs. 67	27½	Rs. 1,779	Rs. 65	27½	Rs. 63,405	Rs. 2,327	27½	Rs. 67,698	Rs. 2,484	Rs. 4,293	.....



## KAUNIA AND DHARLLA STATE RAILWAY.

*Approximate Return of Traffic for the week ended 22nd January 1887, on 37 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated.)	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	2,231	775 0 0	4,691 0	252 0 0	1,090 0 0	2,117 0 0	259	269	528
Or per mile of railway ...	60	21 0 0	127 0	7 0 0	.....	28 0 0	7	7	14
For previous 3 weeks of half-year ...	3,909	1,369 0 0	12,224 0	842 0 0	2,347 0 0	4,549 0 0	555	535	1,140
Total for 4 weeks ...	6,139	2,135 0 0	16,915 0	1,094 0 0	3,437 0 0	6,666 0 0	814	854	1,668
COMPARISON.									
Total for corresponding week of previous year ...	2,046	876 0 0	3,568 0	215 0 0	1,526 0 0	2,617 0 0	259	259	518
Per mile of railway corresponding week of previous year ...	55	24 0 0	96 0	6 0 0	.....	30 0 0	7	7	14
Total to corresponding date of previous year ...	6,014	2,680 0 0	10,003 0	627 0 0	4,708 0 0	8,015 0 0	851	851	1,702

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Kaunia and Dharlla State Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
37	2,617	71	37	2,117	57	37	1,02,747	65	37	1,00,002*	63	.....	2,746

\* Audited up to week ending 18th December 1886.

## NORTHERN BENGAL STATE RAILWAY.

*Approximate Return of Traffic for the week ended 22nd January 1887, on 249 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings inclusive steam-boat (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,999	12,740 0 0	1,13,320 0	26,080 0 0	4,600 0 0	45,420 0 0	5,012	10,156	15,168
Or per mile of railway ...	73	51 0 0	455 0	105 0 0	.....	156 0 0	20	41	61
For previous 3 weeks of half-year ...	33,222	27,560 0 0	2,85,386 0	61,060 0 0	10,900 0 0	99,520 0 0	10,542	19,575	30,117
Total for 4 weeks ...	56,221	40,300 0 0	3,98,706 0	87,140 0 0	15,500 0 0	1,42,940 0 0	15,554	29,731	45,285
COMPARISON.									
Total for corresponding week of previous year ...	20,087	14,278 7 7	1,88,251 0	34,767 6 0	5,628 3 7	54,674 1 2	5,012	11,572	16,584
Per mile of railway corresponding week of previous year ...	81	57 5 6	756 0	139 10 0	.....	196 15 6	20	46	66
Total to corresponding date of previous year ...	62,789	44,519 4 9	6,00,646 0	1,15,339 13 0	19,676 9 9	1,79,535 11 6	15,752	39,082	54,836

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Northern Bengal State Railway.*

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
249	54,674	220	249	45,420	174	249	18,40,394	172	249	21,60,376*	201	5,03,982	.....

\* Audited up to week ending 18th December 1886.

## TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 22nd January 1887, on 246 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 246 miles open ...	30,548	15,023 0 0	1,35,288 0	12,637 0 0	5,550 0 0	20,210 0 0	5,211	5,008	10,219
Or per mile of railway ...	124	52 15 0	550 0	51 6 0	2 10 0	106 15 0*	...	...	...
For previous 2 week of half-year	70,959	25,128 0 0	3,01,022 0	27,447 0 0	7,688 0 0	60,263 0 0	11,216	10,525	21,741
Total for 3 weeks ...	101,507	38,151 0 0	4,36,310 0	40,084 0 0	13,238 0 0	80,473 0 0	16,427	15,533	31,960
COMPARISON.									
Total for corresponding week of previous year on 226 miles open	30,757	10,240 15 0	1,30,699 30	13,219 0 0	2,273 7 4	25,733 6 4	3,652	4,656	8,308
Per mile of railway corresponding week of previous year ...	136	45 5 0	578 0	58 8 0	1 2 0	104 15 0*	...	...	...
Total to corresponding date of previous year ...	95,139	34,790 12 5	4,55,055 10	37,215 11 0	8,375 11 0	80,586 2 5	12,568	12,549	25,117

\* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 23RD JANUARY 1886.			RECEIPTS FOR WEEK ENDING 22ND JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 23RD JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 22ND JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
236	25,733	114	246	29,210	119	226	10,37,869	4,592	246	12,51,369	5,087	2,13,500	.....

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for first 8 days of January 1887	...	...	...	Rs. A. P.
Corresponding week last year	...	...	...	3,744 0 0
Decrease	...	...	...	3,804 0 0
Miles open, first 8 days of January 1887	...	...	...	60 0 0
Corresponding week last year	...	...	...	Miles.
Increase	...	...	...	51
Receipts per mile open for first 8 days of January 1887	...	...	...	50½
Corresponding week last year	...	...	...	1
Decrease	...	...	...	Rs. A. P.
	...	...	...	73 6 7
	...	...	...	74 15 5
	...	...	...	1 8 10

SECRETARY'S OFFICE, DARJEELING, 15th January 1887.

W. STEVENSON, Secretary, D. H. Ry.

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for week ending 15th January 1887	...	...	...	Rs. A. P.
Corresponding week last year	...	...	...	4,400 0 0
Decrease	...	...	...	5,174 0 0
Receipts from 1st to 15th January 1887	...	...	...	774 0 0
From 1st to 16th January 1886	...	...	...	8,144 0 0
Decrease	...	...	...	8,978 0 0
Miles open week ending 15th January 1887	...	...	...	834 0 0
Corresponding week last year	...	...	...	Miles.
Increase	...	...	...	51
Receipts per mile open week ending 15th January 1887	...	...	...	50½
Corresponding week last year	...	...	...	1
Decrease	...	...	...	Rs. A. P.
	...	...	...	83 4 5
	...	...	...	101 15 3
	...	...	...	15 10 10

CHIEF OFFICE, DARJEELING, the 25th January 1887.

W. STEVENSON, Secretary, D. H. Ry.



# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 9, 1887.

## OFFICIAL PAPERS.

*Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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## RESOLUTION ON THE GENERAL REPORT ON PUBLIC INSTRUCTION IN BENGAL FOR 1885-86.

### GENERAL DEPARTMENT—EDUCATION.

*Calcutta, the 2nd February 1887.*

#### RESOLUTION.

#### READ—

The General Report on Public Instruction in Bengal for 1885-86.

This report, which is not dated, was received more than three months after the day on which it was due, and no sufficient explanation has been offered of the delay. It is submitted by Mr. A. W. Croft, who was on furlough during the period to which it relates, and returned in July last, relieving Mr. Tawney. This fact may to some extent account for the time spent in its preparation, but the Lieutenant Governor hopes that in future punctuality will be observed, even where, owing to a change of officers, or any such cause, there is some difficulty in getting the work ready by the time prescribed. The report is clear, full, and as concise as is consistent with the inclusion of a vast number of details, its bulk having been reduced from 155 pages in 1883-84 to 128 pages. Such a report received on the proper date would be deserving of unmingled commendation.



General summary.

2. The following table compares for two years the figures of all schools that submit returns to the Department:—

CLASS OF INSTITUTIONS.		YEAR 1884-85.		YEAR 1885-86.		Average number of pupils, 1885-86.	
		Schools.	Pupils.	Schools.	Pupils.		
<i>Public Institutions.</i>							
University	...	Colleges	25	2,779	26	2,998	115
	...	High English schools	249	53,272	264	57,623	214
Secondary	...	Middle	709	49,186	732	52,003	71
	...	vernacular	1,140	66,911	1,141	63,944	56
Primary	...	Upper primary	2,722	100,738	3,087	113,526	37
	...	Lower	62,864	1,121,909	47,623	986,180	21
Special	...		67	4,843	90	5,733	64
Female	...		2,354	44,112	2,336	46,293	20
Total Public Institutions			70,129	1,442,841	55,299	1,325,280	
<i>Private Institutions.</i>							
Advanced: teaching—							
Arabic or Persian	...		940	10,485	1,303	18,766	14
Sanskrit	...		1,038	1,841	677	6,446	9
Elementary: teaching a vernacular only or mainly	...		372	5,265	234	3,689	16
Other schools not conforming to departmental standards	...		112	1,748	121	1,848	15
Total Private Institutions			2,512	27,339	2,234	29,749	
GRAND TOTAL			72,641	1,470,180	57,533	1,355,029	

The most noteworthy fact in the educational history of the year is the disappearance from the returns of the department, and the removal from departmental control, of 15,104 schools and 112,151 pupils. The decrease is under the heading of lower primary schools, and its causes will be discussed in the paragraph of the Resolution dealing with that branch of popular education. In so far as the decrease is not nominal, it is due to the exclusion, under recent orders, of new and untried schools from the returns; also of schools with less than 10 pupils. In all classes of schools other than lower primary, satisfactory progress has been made, especially in English schools, both high and middle, and in the upper section of primary schools. The increase of 23 shown under schools of special instruction is really reducible to 5, 18 Mahomedan *maktabs* of a special character having been erroneously included under this head. Among private institutions not conforming to departmental standards, there is a large increase in those teaching Arabic and Persian, but a still larger falling off in those that teach Sanskrit. The loss has been confined to the Patna Division, where more than 500 *tols* with less than ten pupils apiece have been excluded from the returns—unnecessarily, as the Director points out, since that restriction was intended to apply only to public primary schools seeking aid from the grant for primary education.

3. The actual receipts and expenditure of the Education Department was in

Financial results.

very close accordance with the revised estimates published in the Financial Resolution of this Government, dated the 31st August 1886. In 1884-85 the sanctioned expenditure was Rs. 34,07,000, and the actual expenditure Rs. 34,00,000. The estimates for 1885-86 were originally fixed at Rs. 33,87,000, and were reduced after the beginning of the year to Rs. 33,07,000. Through the vigilant control exercised by Mr. Tawney over the expenditure of the department, a still further saving of Rs. 22,400 was effected on this reduced estimate. Receipts, however, fell short of the estimate of Rs. 5,68,000 by Rs. 29,400, so that the net Government expenditure exceeded the estimate by Rs. 7,000. The chief savings in expenditure were effected under the heads of primary education and of Government colleges, general and professional. The chief falling off in receipts is found under the head of municipal contributions to Government schools, which were estimated at Rs. 20,000, but realised only Rs. 6,600. The Director points out that two years ago the receipts from municipalities under this head amounted to Rs. 12,000, and a complaint is implied in his remark that the income from that source instead of advancing has gone back. The maintenance of all middle vernacular schools within municipal limits has recently been transferred to Municipal Boards, and Government no longer pays any portion of their cost. Further steps are now being taken to enforce the same principle. The Director's report shows, however, that if schools under private

as well as under public management be taken into account, the contributions of Municipalities towards their support have risen from Rs. 71,400 to Rs. 74,600, of which Rs. 6,600 were paid to schools under departmental control, Rs. 11,100 to schools managed by Municipal Boards, and Rs. 56,900 to schools under private management.

4. The expenditure of the department from all sources, public and private, during the last two years, is shown in the subjoined table, which is taken from the departmental returns. It includes charges for medical education and for buildings, which are not included in the educational estimates, and the totals consequently differ from those given in the last paragraph :—

	YEAR 1884-85.		YEAR 1885-86.	
	Government expenditure (net.)	Total expenditure.	Government expenditure (net.)	Total expenditure.
	Rs.	Rs.	Rs.	Rs.
University	...	31,000	...	81,000
Collegiate	3,27,000	5,02,000	3,15,000	5,47,000
Secondary	5,82,000	24,35,000	5,83,000	25,01,000
Primary	6,57,000	27,18,000	5,97,000	24,53,000
Female	1,30,000	9,77,000	1,44,000	5,03,000
Special	4,14,000	5,00,000	4,11,000	5,51,000
Scholarships	1,64,000	1,85,000	1,65,000	1,94,000
Buildings	1,07,000	2,25,000	1,12,000	1,19,000
Furniture and apparatus	8,000	9,000	8,000	9,000
Miscellaneous	1,05,000	1,05,000	1,11,000	1,37,000
Superintendence	4,17,000	5,00,000	5,40,000	5,51,000
	50,80,000	78,15,000	29,90,000	76,43,000

The Government expenditure has decreased by Rs. 90,000, owing to the reductions effected during the year, and the total expenditure by Rs. 1,67,000, owing to the exclusion of 15,000 small schools from the returns. There has been a decrease of Rs. 12,000 under collegiate education, of Rs. 64,000 under primary instruction, and of Rs. 80,000 under buildings. The only large increase in Government expenditure is found under the head of Superintendence, and arises from the increase of the salary of third grade Sub-Inspectors from Rs. 30 to Rs. 50, and the appointment of Assistant Inspectors for the Burdwan, Dacca and Rajshahye Divisions. In the fee-receipts of the Department there has been an increase of Rs. 7,500 in high schools, of Rs. 4,500 in other schools, and of Rs. 1,000 in schools of law, medicine, and engineering, which has been counterbalanced by a loss of Rs. 13,500 in college-fees, due to the temporary withdrawal of second and fourth-year students after the completion of their two-years' course. This resulted, as in the previous year, from the recent change in the date of the University examinations, the effect of which has now ceased. The proportion of the Government expenditure on education to its total cost was 39.1 per cent., which is slightly below what it was in the previous year.

5. Under the orders of the Government of India, a separate section of the report is now devoted to the measures that have been taken during the year to carry out the recommendations of the Education Commission. The following are the chief:—The recognition and encouragement of Sanskrit tols, the highest class of indigenous schools in these provinces, has long formed an integral part of the educational system of Bengal; and the papers relating to a proposal for giving increased aid and support to these institutions have lately been published for general information. The inspection and examination of primary schools *in situ* is being carried out to the utmost extent possible with the present limited agency; the position of the subordinate inspecting officers has been much improved, and some additions have been made to their number. In the field of secondary education the proposal to establish an alternative standard at the Entrance examination, in the future interests of technical instruction, has been referred to the University. The Lieutenant-Governor has notified that on the 1st May 1887, the Berhampore and Midnapore Colleges will be transferred with specified grants to private management, or in default of any suitable offer to take them over, will be closed. The Midnapore College will be transferred to the local Municipality; and the Lieutenant-Governor has been gratified to learn

that proposals will shortly be made from more than one quarter to take over the management of the Perbampore College. A college under private management has recently been opened at Narail in Jessore, in connection with the successful high school long established there; and an additional grant-in-aid of Rs. 100 a month has been sanctioned for the support of the college classes. The fact, remarked on by the Commission, that no aided colleges have hitherto sprung up in the interior of Bengal outside Calcutta is due, in Sir Rivers Thompson's opinion, to no insufficiency in the scale of grants-in-aid authorised by existing rules, but rather to the practice of requiring a fee of Rs. 5 a month to be levied in all colleges applying for Government aid; while the example of private institutions in Calcutta, which uniformly charge a fee of Rs. 3, shows that the former limit is too high. The rule has been relaxed in favour of the Narail College, in which the proposed rate of Rs. 3 has been accepted. In matters relating to the internal administration of the Department, the recommendation of the Commission that native gentlemen of approved qualifications should be employed as Inspectors of Schools has been carried out by the appointment of Baboo Radhika Prasanna Mookerjee to officiate as Inspector of the Presidency Circle and by his promotion to the superior grades of the Department. The Lieutenant-Governor has learnt with pleasure from another portion of the report, that this officer has fully justified the action of the Government in thus promoting him. Conferences of departmental officers, either alone or in conjunction with managers of private schools, have been held during the year, and the Lieutenant-Governor has ordered that another, under the presidency of the Director of Public Instruction, shall be held this cold weather, at which, among other things, the grant-in-aid rules and many important questions connected with female education will be discussed. The appointment of two additional Inspectresses of Schools was recommended; but financial exigencies made it impossible to carry out the proposal. The education of Muhammadans has received careful attention; and Sir Rivers Thompson has recently sanctioned the creation of 20 special scholarships awardable to Muhammadan students on the results of the Entrance, of 20 on the results of the F. A., and of two on those of the B. A. Examination. The appointment of two Muhammadan Assistant Inspectors on salaries of Rs. 200 to Rs. 300 a month has also been recommended to the Government of India. The rules published under the Local Self-Government Act in the *Calcutta Gazette* of the 17th February 1886 provide for the transfer to District Boards of the allotments for primary education and primary scholarships within the area under their control, of the grant-in-aid allotment for certain classes of schools, and of the net grants to all Government schools that are placed under the direct management of the Board. These rules are now in force in the 16 districts to which the Act has been applied.

6. By the appointment during the past year of Assistant-Inspectors for the Burdwan, Dacca, and Rajshahye Divisions, every division in Bengal has now a Joint or Controlling Agencies. Assistant Inspector of its own, acting under the orders of, and in close communication with, the Circle Inspector. The Government of Bengal in fact looked forward to this result when first sanctioning the appointment of Assistant Inspectors in 1878, in view of the increased demands made on the attention of Circle Inspectors by the growth of primary as well as secondary schools of all grades. The educational policy followed in Bengal in past years has been uniformly guided by the principle that the inspecting, and especially the superior inspecting staff of the Department must be maintained at the highest possible level of intelligence, efficiency, and administrative power, in the belief that only through the vigilant control exercised by such an agency can the stability of schools and their continued progress be secured, and at the same time an assurance be gained that whatever funds the Government may be able to allot to education are laid out to the best advantage. The maintenance of that policy has derived special importance in Bengal from the recent enlargement of the field of primary education, which, though under the immediate control of the District Magistrates, has needed all the care and attention which the officers of the Department have been able to give to it in the last ten years, and in which, with its transfer to District Boards, a new set of labourers are now about to take up



unaccustomed work. In the following estimate of the importance of an Inspector's duties the Lieutenant-Governor fully concurs:—

The functions of an Inspector of Schools are extensive and varied. In addition to the duties of inspection and examination, which alone are implied in the office as it is understood in England, a Circle Inspector in Bengal has administrative duties of a large and responsible kind, involving, on one hand, the control of subordinate officers of established position as teachers or inspectors, and on the other the conduct of affairs, requiring business capacity and a conciliatory spirit with independent persons or bodies. For the continued efficiency of our educational organisation, it is necessary to exercise the most vigilant care in the selection of officers who are entrusted with duties so important.

Sir Rivers Thompson has read with pleasure the encomium which the Director proceeds to pass upon the work of several of the chief inspecting officers of the Department. The proved success of the educational system in Bengal affords additional testimony to the services rendered by Inspectors and Assistant Inspectors, and to the cordial spirit in which they co-operate with Magistrates and other civil officers interested, equally with themselves, in the progress of education as one of the main branches of sound administration. In this place the Lieutenant-Governor takes the opportunity to call the attention of the Director to Recommendation 14 of the Education Commission, on the subject of the preparation of a Code for the guidance of inspecting officers, which has already been commended to his notice.

7. The work done by Deputy Inspectors maintains the high level of the previous year. The prescribed term of 150 days on tour has been reached by all except nine officers out of 43. The average is highest in the Bhagulpore Division, with 192 days; and the Deputy Inspectors of the Presidency, Patna, and Chota Nagpore Divisions have spent respectively 185, 183, and 179 days on tour. The three officers of the Chittagong Division show an average of only 146 days, but each was on leave for two or three months in the year. Satisfactory explanations of short work have been furnished in the case of five out of the remaining six officers. The Deputy Inspector of Dacca was on tour for only 119 days, and the fact that for two months he was officiating as Assistant Inspector cannot be regarded as affording a sufficient explanation of his want of activity. There has been some decline in the number of days spent on tour by Sub-Inspectors. The prescribed term of 200 days has been exceeded in six divisions of Bengal—the Presidency, Dacca, and Orissa Divisions standing highest with 227, 231, and 241 days respectively; but in the Bhagulpore and Chota Nagpore Divisions an average of only 197 days has been reached, and in the Patna Division it falls to 184 days. The Lieutenant-Governor concurs in the remark of the Director that there seems to be no sufficient reason for the very indifferent record of work shown by the Sub-Inspectors of the Patna Division, where travelling presents no special difficulties, and where, nevertheless, only seven out of 24 officers have come up to the required standard.

8. The employment of chief gurus or of inspecting pundits, or of some combination of the two, as a subordinate inspecting agency, is now in force in almost every district which has a large number of primary schools. In the Dacca Division the chief gura system is said to be open to the charge that some of the gurus neglect their own patshalas in order to earn the allowance granted for visiting schools, and their inspection is also reported to be superficial. Much colour is lent to this complaint by the record of work in the Chittagong and Orissa Divisions, where the chief gurus are said to have paid about 550 visits each on the average during the year. "It is quite clear," Mr Croft remarks, "that the guru's own school must suffer when the principle of periodical visits for purposes of help and guidance is carried to such excessive lengths. A special report will in future be called for as to the success of these presumably neglected schools in the examinations of their class." The fault here pointed out can only be attributed to defective supervision, and the Lieutenant-Governor trusts that local officers will not suffer a system of inspection which, within due limits, is a simple and useful one to degenerate into a scramble for travelling allowances.

9. The number of colleges has increased from 25 to 26, owing to the opening of a small college class in connection with St. Paul's School, Darjeeling. The number of students on the rolls of all colleges was greater on the 31st March

1886 than at any previous time, having advanced during the year from 2,779 to 2,998. In Government and in aided colleges the numbers are nearly stationary, the increase having been confined to unaided colleges, and chiefly to the Metropolitan and Ripon Colleges of Calcutta, the Burdwan Maharajah's College, and the Jagannath College of Dacca, the last two of which teach up to the First Arts standard only. The increasing success of the Calcutta colleges under private management has again tended to reduce the numbers in the Presidency College, which fell to 180, against 204 in 1885, and 383 in 1883. The small decrease in the attendance of the Dacca College is explained by the very successful start which the Jagannath College has made. There is a large proportionate increase in the numbers of the Patna College and the Ravenshaw College at Cuttack,—a satisfactory result in view of the progress and the requirements of Behar and Orissa. The General Assembly's College in Calcutta is rapidly regaining its old position. The total annual cost and the cost to Government of each student in Government colleges fell from Rs. 366 to Rs. 354, and from Rs. 269 to Rs. 267 respectively. There is a similar decrease in the returns of private colleges generally, except in the Doveton, where the cost of each student to Government has risen from Rs. 57 to Rs. 125, the Government grant having been slightly raised, while the average attendance has fallen one-half. The colleges of the ordinary type in which the education of each student costs most to Government are the Presidency (Rs. 388), the Ravenshaw College at Cuttack (Rs. 361), and the Berhampore College (Rs. 393). The maintenance, even at a high cost, of the Ravenshaw College, in which the number of students is still very small, is justified by the exceptional circumstances of Orissa; and the cost of the Berhampore College will disappear or be largely reduced with its transfer to a private body of managers. Of an exceptional kind are the Bethune School (Rs. 620), the Sanskrit College (Rs. 397), and the Calcutta Madrassa (Rs. 991). But these last institutions exist for other purposes than the maintenance of the small college classes attached to them; and the high rates quoted are apparently due to the fact that in each case the whole salary of the Principal is wrongly debited to the highest section of the college instead of being distributed over the whole institution.

10. The Presidency College may be regarded as a genuine teaching University of the historical type, in which students have the opportunity of acquiring instruction in many branches of literature and science up to the highest standard now attainable in India. The maintenance of this institution, as long as no private college teaching up to the same standard can be obtained, is justified, in Sir Rivers Thompson's opinion, by political and administrative considerations that are practically unaffected by a rise or fall in the number of its ordinary students, or by fluctuations in its cost from year to year. A large proportion of its students will always be pass-men; but though the high fees which they pay help to reduce the cost of a necessarily expensive institution, it is not for their benefit that the college is maintained, since they might be educated elsewhere. It is the Honour students—those who take the degree of B. A. in honours or the higher degree of M. A.—who represent the true life of the college, and by whom its existence is justified. It is desirable that the State should provide education for men of this stamp as long as the best instruction cannot be obtained from other sources; for such men frequently become the leaders of the community, and their education to a high standard is a public gain. The increasing success of non-Government institutions at the First Arts and B. A. examinations, to which the Director draws prominent attention, affords a clear proof that in the lower forms of collegiate education at any rate, the private enterprise of the country is gradually taking a predominant position. In 1886 the number of students passing the F. A. examination from Government Colleges and from those under private management were 244 and 387 respectively; at the B. A. pass examination the corresponding numbers were 81 and 201. In the B. A. Honour and in the M. A. lists the proportion is reversed: at the former examination 68 passed from Government and 41 from private institutions; at the latter the number was 21 and 9 respectively. Facts of this kind, as well as considerations of a more general nature, clearly indicate the limits within which, in Sir Rivers Thompson's opinion, the direct agency of Govern-



ment should tend to confine itself. Primary schools have always in Bengal been indigenous institutions, needing only the support and encouragement necessary for their multiplication to a degree sufficient to provide for the educational wants of the whole population of a school-going age, instead of, as at present, for a small minority; of secondary schools, English and vernacular, only a small proportion are maintained by the Government, namely, one-twelfth of the former and one-sixth of the latter class; and it has just been shown that the number of students passing the First Arts examination from institutions under private management exceeds by more than one half the number passing from Government colleges. The Lieutenant-Governor finds in these considerations additional grounds for the opinion he expressed in the Resolution on the Report for 1884-85; and he trusts that, at no very distant date, it may be possible to confine the more direct operations of Government, if these are in any degree to be continued, to the provision of education for the highest class of students in the country—to those who will themselves become independent workers in their own special lines of study and research. And even in this sphere it is evident that private enterprise can compete not unsuccessfully with the more expensive Government agency.

11. The Government of India, in communicating approval of the action taken by the Lieutenant-Governor in regard to the transfer of the Midnapore and Berhampore Colleges, expressed the trust of the Governor General in Council that it may be found possible at no far distant period, and without detriment to the true interests of higher literary education in Bengal, to carry still further the policy of the gradual transfer to independent management of the Government Colleges and other higher educational institutions of this province. A report from the Director of Public Instruction upon this subject is awaited. Meanwhile, it is observed that the following information, extracted from the report, shows that there has been an improvement during the year in the working of those colleges, as to the continuance of which on their present footing doubts have been raised:—

NAMES OF COLLEGES.										Number on rolls at the end of the year.	Passed F. A. examination.	Passed B. A. examination.	Cost per annum for each student.
													Rs.
Hooghly—													
1885	...	...	...	...	...	...	...	...	...	111	31	12	...
1886	...	...	...	...	...	...	...	...	...	143	34	19	277
Dacca—													
1885	...	...	...	...	...	...	...	...	...	149	22	14	...
1886	...	...	...	...	...	...	...	...	...	131	41	25	161
Krishnagar—													
1885	...	...	...	...	...	...	...	...	...	43	7	3	...
1886	...	...	...	...	...	...	...	...	...	55	15	2	266
Rajshahye—													
1885	...	...	...	...	...	...	...	...	...	57	13	4	...
1886	...	...	...	...	...	...	...	...	...	44	28	5	117
Chittagong—													
1885	...	...	...	...	...	...	...	...	...	22	4	...	...
1886	...	...	...	...	...	...	...	...	...	24	8	...	124
Total										412	77	33	...
{ 1885 }										329	126	51	...

There has thus been in every case an improvement in the result of examinations, and an increase in the number on the rolls except at Rajshahye and Dacca. On the other hand a still greater progress was made by the only two colleges opened by private enterprise in the interior—the Maharajah's at Furdwan, and the Jagannath at Dacca; in the former the number of students increased from 97 to 142, that of persons passing the F.A. examination from 29 to 37, while at the Jagannath College there were 112 students in 1886 against 48 in 1885, and 28 passed against 8. The figures here given must be taken in correction of those incorporated in the Resolution on the Administration Report of the Dacca Division, but they point to the same conclusion, that the Jagannath College is to some extent superseding the lower division of the Government College at Dacca. The general inference would seem to be that private persons are quite competent to manage education in the interior up to the F. A. standard, as they are in Calcutta able to arrange for the highest class of instruction.

12. These are now held at the beginning of April, and for this reason no account of the examinations of 1885 was furnished in the report of the previous year. In the present report, however, the Director has thought it right to depart from the

University Examinations.



precedent of 1884-85 and the returns of the examinations of 1885 and of 1886 are accordingly submitted, although the latter was not held within the strict limits of the year under report. At the First Arts examination, Government colleges passed 58 per cent. of their candidates in each year; from aided colleges 40 per cent. passed in 1885 and 45 per cent. in 1886; and from unaided colleges 39 per cent. passed in 1885 and 49 per cent. in 1886. In the number of candidates passing in the first division the Government colleges take the highest place, especially the Presidency, Hooghly, and Dacca Colleges. The Metropolitan Institution, and the General Assembly's, St. Xavier's and Free Church Colleges follow close behind. The Jagannath College of Dacca passed 8 candidates at this examination in 1885, and 28 in 1886.

13. At the B. A. examination of 1885, 242 candidates out of 241 passed, or 72 per cent.; at the examination of 1886, 396 out of 712 passed, or less than 56 per cent. The Director explains the less favourable result of the latter examination by the large increase in the number of B. A. candidates in that year. The First Arts examination of June 1884 was the last under the old system, and an exceptionally large number of candidates (487 in Bengal) was declared to have passed. Six months later a supplementary examination was held for those who had failed, and the number of successful candidates was still further increased by 290, or 777 in all. These were examined for the B. A. degree in April 1886; and the Director adds: "it is perhaps matter for congratulation, considering that every candidate who had the shadow of a chance was allowed to pass in 1884, that as many as 55 per cent. passed the B. A. examination two years later." The new system under which the successful candidates are classified as B. A.'s with honours and ordinary B. A.'s, with different standards of examination, makes a much needed and very useful distinction between two classes of candidates. The Presidency College passed 40 B. A.'s with honours, of whom 16 were in the first division. The Metropolitan Institution and the Dacca College each passed 14 with honours and five in the first division; the Patna College passed nine with honours. The first examination for the M. A. degree under the new regulations was held in November 1885. There was a marked decrease in the number of candidates which fell from 71 in 1884 to 43. The standard for the M. A. degree has been considerably raised in correspondence with the revised standard for honours in the B. A. examination; and those who took the B. A. degree under the old regulations in many cases found the new M. A. standard too high for them. Of the 43 candidates 30 were successful. Of these, the Presidency College claimed 16, the Metropolitan and General Assembly's Colleges four each, the Patna College three, while one or two passed from St. Xavier's and the Sanskrit Colleges. The success of colleges under private management at these, the highest examinations of the University, affords ground for much satisfaction as indicating that there is no branch of literary education beyond the sphere of independent enterprise.

14. Sir Rivers Thompson gladly concurs in the opinion expressed by the Director in the following terms upon the work of the higher educational staff:—

To the work done by the Principals and Professors in the different Government colleges nothing but praise can be accorded. They have spared no pains in their desire to maintain University education at its highest possible level; and the quality of their work is sufficiently attested by the distinguished place which the colleges fill in the University honour lists. The Presidency College, which has been under the efficient management of Mr. Griffiths, owes to the commanding strength of its professorial staff the position which it occupies as the leading institution on this side of India for the promotion of higher education. The Patna, Hooghly, and Dacca Colleges are also strongly officered; and the efforts of able and zealous Principals like Mr. Ewbank, Mr. Mowat, and Mr. Booth, have been seconded with no less ability and zeal by the Professors who assist them. These larger colleges are the institutions on which, it is not too much to say, depend the higher education of Bengal and its continued progress in the ways of civilisation. Their effects are seen not only in the creation of a body of public servants of an unimpeachable standard of capacity and integrity, but also in the growth of independent professional life, in the development of a vigorous public opinion, and in the creation of a mass of useful literature, through which men who have been trained in our colleges "hand on the lamp" to a younger generation. The responsibilities that fall upon educational officers having duties of such importance to discharge are of the highest kind; and they are met, I am glad to be able to record, with enthusiasm and alertness.

15. The following statement shows the number of high English schools for native boys, and of pupils attending them, for the last two years:—

*High English Schools for Boys.*

	1884-85.		1885-86.	
	Schools.	Pupils.	Schools.	Pupils.
Maintained by the Department	51	14,401	52	14,963
Ditto by Municipal Boards	2	490	4	929
Aided by the Department or by Municipal Boards	123	18,167	130	19,705
Unaided	63	18,650	69	20,719
Total	239	51,708	255	56,316

The aided school in the new district of Khoolna has been converted into a Government institution. The Municipalities of Bally in the Hooghly district and of Nattore in Rajshahye have taken over the management of the high schools at those places. The increase of seven aided schools is due either to the rise of middle schools to this class, or to the giving of a grant to schools previously unaided. Of schools lately aided there are four, while ten new schools have come into existence without grants, so that there is an increase of six unaided schools; hence there has been a total increase of 16 high schools and of 4,608 pupils due almost entirely to private effort. The Lieutenant-Governor trusts that at no distant date a large number of Government schools will be transferred to the management of Joint Committees to be appointed under the Local Self-Government Act. There is fortunately no ground for questioning the complete capacity of bodies of native gentlemen for managing high English schools; and the success which they have achieved for many years in comparatively small places may be looked for with even greater confidence in the head-quarter stations of districts.

16. The Report shows a serious decline in the proportion of successful candidates at the last two Entrance examinations of the University. The percentage of success has fallen from nearly 54 in 1884 to 36 in 1885 and to 28 in 1886. The decline has affected all classes of schools and all Divisions alike; it has attracted considerable public attention, and the University has appointed a Committee to inquire into the subject. It is therefore unnecessary for the Lieutenant-Governor to comment on what would in other circumstances have been deemed to indicate a loss of efficiency. It will be sufficient to compare the schools with each other at the last two examinations, rather than with their performances in previous years. The Hare School heads the list of collegiate schools as usual; but in the examination of 1886 the Rajshahye Collegiate School advanced from the sixth place to the second, displacing the Hindu School from the position which it has occupied for many years. The next in order are the collegiate schools at Dacca, Patna, and Hooghly. Among zillah schools the highest places were taken in 1885 by Comilla, Chapra, Barisal and Beerbhoom, and in 1886 by Barisal, Bhagulpore and Comilla. The Mymensing School, in former years the strenuous competitor for the first place with Barisal, has now fallen to a comparatively low position on the list. In both these places schools under private management have been for some years successfully maintained. The Gya and Chapra Schools drew no portion of their net grants during the year, the income from fees and subscriptions being sufficient for their maintenance. The Howrah School obtained a very high place at the examination, but the attempt to work it without a net grant has failed, as in previous years. There are many schools under private management in the neighbourhood, and the question of retaining this as a Government institution is one that is now under the Lieutenant-Governor's consideration in connexion with the revision of net grants to schools. The new zillah school at Khoolna has made a fair start by passing five candidates at the examination. From the Ranchi School a genuine Kol boy passed the Entrance examination in 1885, and gained a junior scholarship. The

Inspector of the Western Circle, Baboo Bramha Mohan Mullick, complains that managers of middle schools are often tempted to raise them to the high class without being able to provide a sufficient staff. That many schools under private management are really inefficient is illustrated by the Inspector's remark that his seven departmental schools passed more candidates than all the other 50 schools that competed. The Director is justified in his comment that "the chief drawback to this state of things is that a bad high school ceases to be even a good middle school; for the teaching in a high school is or may be conducted exclusively through English, and no longer in the vernacular." But so far as aided schools are concerned, the remedy lies in his own hands, for the Director may refuse to allow a school to raise its class unless he is satisfied that the new teaching staff is thoroughly efficient. He is requested to impress this point upon Circle Inspectors when they send up proposals for the conversion of middle to high class schools.

17. The figures for middle English schools are given below:—

*Middle English Schools for Boys.*

	1884-85.		1885-86.	
	Schools.	Pupils.	Schools.	Pupils.
Maintained by the Department	7	924	11	1,354
Ditto by Municipal Boards	1	280	3	608
Aided by the Department or by Municipal Boards	532	37,216	547	38,164
Unaided	155	9,295	155	10,268
Total	695	47,714	716	50,374

The increase of four Government and two Municipal schools is the result of a mere change of classification, arising from the addition of English classes to middle vernacular schools. The increase of 15 aided schools is explained as follows:—Ten middle vernacular schools were raised, and one high school was reduced, to this class, while 26 unaided schools received grants. On the other hand, two middle English schools were reduced to vernacular, and five were raised to high English schools, while the grants were withdrawn from 14, and one aided school was taken over by a municipality. The danger referred to in the last paragraph as attending the elevation of middle to high English schools is also noticed as incidental to the conversion of middle vernacular into middle English schools. In accordance with the orders of 1878, an English class can be added, with the consent of the Inspector, to any vernacular school, and as soon as the English teaching is declared efficient, it is ranked as a middle English school; but in some cases it is reported that this conversion is effected at the cost of the vernacular teaching, the school being unable to afford an English teacher without reducing to some, and perhaps a dangerous, extent the vernacular staff. Vernacular instruction is the basis of all middle schools, whether they are classed as English or as vernacular; and the Lieutenant-Governor must insist on the utmost care being taken to prevent any loss of its efficiency. It is hardly necessary to repeat that a good vernacular school is far more useful than a school which teaches both English and the vernacular badly.

18. The figures for middle vernacular schools are here given:—

*Middle Vernacular Schools for Boys.*

	1884-85.		1885-86.	
	Schools.	Pupils.	Schools.	Pupils.
Maintained by the Department	180	10,474	179	9,508
Ditto by Municipal Boards	9	1,444	9	1,417
Aided by the Department or by Municipal Boards	849	47,872	857	47,166
Unaided	103	6,221	96	5,853
Total	1,140	66,011	1,141	63,944

The loss of one departmental school is due to the addition of an English class to a vernacular school in Orissa; the place of three other vernacular schools similarly raised being supplied by three new schools. There is



again of eight aided schools, and a corresponding decrease of six in the number of unaided schools. When middle vernacular schools are established by private effort in advanced and prosperous villages, it is generally, the Director reports, with the object of converting them hereafter into English schools; thus in the Burdwan Division, of 232 aided vernacular schools, nearly one-fifth have English classes attached. Before any of these are officially recognised as English schools, the Lieutenant-Governor trusts that the conditions referred to in the last paragraph will be steadily enforced. He regrets to observe the backward and even declining state of aided middle education in Behar, especially in those schools in which no English is taught. In the Patna Division, middle English schools fell from 60 to 53, and middle vernacular schools from 13 to 7. Primary schools flourish in Behar, but students who seek education of any higher kind seem to prefer for the most part the zillah schools at head-quarters, or the high schools which in many places have been established under private management side by side with the zillah schools. Indeed the chief purpose which middle schools appear to serve in Behar is not so much to promote general education as to qualify candidates for the mooktearship examination held by the High Court.

19. The results of the examinations of candidates from middle schools, English and vernacular, for the middle scholarship certificate, were satisfactory. In 1884-85, 7,540 candidates appeared, of whom 654 obtained the middle, English and 3,115 the middle vernacular certificates or 3,769 in all. In 1885-86, 6,656 candidates appeared, of whom 590 gained the middle English and 3,111 the middle vernacular certificates or 3,701 in all. The number of candidates was smaller by 884 than in the previous year, when, owing to the change in the date of examination, the session consisted of 17 months, but the number of successful candidates was only 68 behind. At the examination of 1885-86, pupils of middle English schools gained 569 English and 582 vernacular certificates, while those from middle vernacular schools gained 21 English and 2,529 vernacular certificates.

Primary Education.

20. The statistics of public primary schools for native boys are given below:—

	1885-86.		1886-87.	
	Schools.	Pupils.	Schools.	Pupils.
<b>UPPER PRIMARY SCHOOLS.</b>				
<i>Under public management.</i>				
Maintained by the Department	22	753	20	712
Ditto by Municipal Boards	6	201	6	175
<i>Under private management.</i>				
Aided by the Department or by Municipal Boards	2,613	96,903	2,976	109,771
Unaided	79	2,858	78	2,678
Total	2,720	100,715	3,080	112,536
<b>LOWER PRIMARY SCHOOLS.</b>				
<i>Under public management.</i>				
Maintained by the Department	8	152	9	121
Ditto by Municipal Boards	20	489	20	472
<i>Under private management.</i>				
Aided by the Department or by Municipal Boards	56,885	1,642,239	40,632	839,116
Unaided	5,947	78,985	7,502	116,451
Total	62,830	1,721,265	47,623	955,160
GRAND TOTAL	65,550	1,822,580	50,703	1,090,496

The disappearance from the returns of the Department of 14,877 schools, of this class, and of 123,084 pupils, is attributed to the rigorous exclusion from the departmental examinations, and subsequently from the annual returns submitted by the local inspecting officers, of small, temporary, or backward schools, that is to say, of those which had less than ten pupils, had existed for less than six months, those which did not use printed books, and those which did not bring to the place of examination registers and returns properly kept. The rule prescribing this exclusion was proposed by the

Director of Public Instruction, and approved by Government in the Resolution on the annual report of 1883-84, as in accordance with the principle that the consolidation and improvement of existing institutions should now be the main object of local officers. It is stated that the opinion of District Officers is practically unanimous in favour of the change, and it is evident that the new rule has had the good effect of preventing the waste of public money on ephemeral institutions got up for the sake of the reward, and doing no real good. The result of the lower primary scholarship examination, however, shows a decrease of 612 competing and 542 successful schools, on which the Director observes:

"The percentage is better than in the previous year; but still it must be admitted that the small schools excluded under the new system contained many pupils who were qualified to pass the lower primary examination, and who have now lost the advantage of that incentive to progress which the examination supplied. This is a fact the importance of which must not be overlooked; and the unfavourable results of the last examination cannot, in my opinion, be explained (as some have endeavoured to explain it) by changes in the system of examination tending to increased strictness. We must accept the fact that primary education during the past year has received a check, from which we may nevertheless hope that it will again recover. The advantage of concentrating effort and limiting the area of operations is undoubted with our present limited agency; but there is no use in disguising from ourselves the fact that in a large part of Bengal we have been compelled to part with control over good and promising educational material."

21. The importance of not diminishing the number of those who really receive primary education is apparent from the fact that, of the boys of school-going age in Bengal, little more than one-fourth are classified as under instruction. Were funds available, it would be most desirable to extend the blessings of primary education to the three-fourths of the population now allowed to grow up in ignorance, and even with the limited means now at the disposal of Government, every effort should be made to prevent a falling off. It is noticed that the loss has been greatest where it could be least afforded: the Presidency Division has not suffered, while Behar, always backward in educational position, has lost the enormous number of 5,647. In this division where, as previously noticed, the rule was by mistake extended even to Sanskrit tols, the number of candidates for the lower scholarship examination declined from 13,616 to 9,429, the number of successful scholars from 6,867 to 5,263, and no explanation of the falling off has been given by the Inspector. It appears, moreover, that the Muhammedans, who frequently keep up small schools as *maktabs*, have suffered in a special manner from the new system. The Lieutenant-Governor will ask for a special report on the working of the new rules from the Director, and until orders have been passed on it, District Magistrates, in communication with District Education Committees, may, as formerly, exercise a discretion in the matter, in places where District Boards have not been established.

22. On the other hand it is satisfactory to be able to record a considerable advance in the number and the efficiency of upper primary schools, which mark the highest point yet reached in primary education. These show an increase of 360 schools and of 12,621 pupils; and the steady increase in their number affords ground for the hope expressed two years ago that the number of schools of this class will at no distant date reach 5,000. They are gradually coming to take in outlying villages, the place formerly held by middle vernacular schools, while these latter tend more and more in all advanced places to be converted into English schools. The results of the upper primary scholarship examination were also good. Of 7,964 candidates, 4,092 passed the examination from 1,804 schools; while in the previous year, of 6,002 candidates, 2,953 passed from 1,223 schools.

23. For the summary account of the progress of primary education in each district which has been furnished in previous reports, Mr. Croft has now substituted three useful tabular statements, which supply, in a convenient form, the chief facts of interest. The first of these tables shows for each district the proportion of school-boys to all boys of school-going age. In four districts, namely Howrah, Hooghly, Tipperah and Noakhally, and in Calcutta, more than 50 per cent. of the male population of school-going age are actually at school, Howrah heading the list with 58 per cent. In Cuttack, Balasore, Burdwan, Midnapore, Backergunge, 24 Pergunnahs, and Bankoora, the percentage varies from 40 to 49. In 17 districts the proportion lies between ten and fourteen per cent., and the

lowest places are occupied by Mozufferpore with 6 and the Chittagong Hill Tracts with 3 per cent. The backward state of education in Mozufferpore, a fertile and in some respects not a backward district, is deplorable, and calls for the earnest attention of the local authorities. Reckoned by divisions, Burdwan, Chittagong and Orissa stand on a close equality at the head of the list with 46 to 46½ per cent.; Dacca follows with 36, and the Presidency Division with 29 per cent.; lowest on the list stand Rajshahye, Chota Nagpore, Bhagulpore and Patna, with from 15 to 12 per cent. An equally interesting table is that in which districts are classified, not by the total number of their pupils, but by the number and advancement of their primary schools, under a rough system in which five marks are assigned to each upper primary school, three to a school which has reached the lower primary scholarship standard, and one to a school below that standard,—these numbers corresponding generally with the number of years in which a school reaches each standard. In this table Midnapore, Cuttack, Tipperah, Mymensingh, Backergunge, and Burdwan stand highest. The four districts—Howrah, Hooghly, Tipperah, and Noakholly—which stood at the head of the previous table, now occupy the 31st, 11th, 2nd, and 20th places respectively, showing that the number of pupils at school in any district affords no test of the quality of the instruction imparted. A third table shows the financial results of the administration of the primary grant, which amounted to 7½ lakhs in 1885-86. The average yearly cost of each school in Bengal was Rs. 13-10, and of each pupil 9½ annas. The average is highest in Chota Nagpore, where each school cost Rs. 37-1 for the year; the Rajshahye and Presidency Divisions follow with Rs. 23-3 and Rs. 21-4 respectively. The schools are worked most cheaply in Orissa, Dacca, Burdwan, and Chittagong, where the cost varies from Rs. 11-8 to Rs. 14-4 a year. The Lieutenant-Governor notices that the divisions in which the schools as a whole are cheapest are precisely those in which, according to the second table above referred to, education is the most advanced. Judged by that table, the most advanced divisions are Orissa, Dacca, Burdwan, and Chittagong; and it is in these divisions that the average cost of a school is lower than elsewhere, namely Rs. 12, Rs. 13, Rs. 14, and Rs. 14 respectively. There is no doubt good reason why, in exceptionally backward parts of the country such as the Rajshahye Division and Chota Nagpore, the maintenance of schools even of an inferior type should be difficult and costly; and, on the other hand, in Orissa and Western Bengal, where for centuries the people have shown remarkable aptitude for elementary education, it is probable that even good schools can be maintained with little help from the State. Still the fact that the advancement of schools in different parts of the country should vary almost uniformly in inverse proportion to their cost is so remarkable, and may so reasonably be due to differences in the value of administrative methods, that the Lieutenant-Governor requests that this subject may receive careful attention at the next Conference of Inspectors. The introduction of more practical subjects at primary examinations was suggested by the Education Commission, and the subject has been noticed in the Resolutions on the last two reports. The Director will now be requested to report what steps have been taken (1) for carrying into effect his recommendation that mensuration should be taught with the first book of Euclid in primary schools; (2) with regard to the suggestion made in the Resolution on the report for 1883-84, that an easy treatise on the preservation of health should be substituted for the Sanitary Primer which was said to have proved to be too abstruse and difficult for lower primary students.

24. The number of training schools was 25, as in the previous year.

Special Instruction and technical education, normal schools. There was some increase both in the number of pupils and in the number of those who gained certificates at the vernacular mastership examination. The Dacca school has done remarkably well, passing 95 out of its 102 pupils; the Rungpore school has also advanced. The Calcutta and Hooghly schools were less successful than in the previous year. The Calcutta training school was removed in January 1886 to more spacious quarters. The English department of the Patna training school was abolished, as its cost was judged to be out of proportion to its utility. Complaints are made that



the supply of certificated teachers for middle schools is unequal to the demand, and the Director reports that applications continue to be received for an increase of the stipend grant to training schools. The difficulty appears to the Lieutenant-Governor to lie not in the insufficiency of the grant, but (as pointed out in the Resolution on the report for 1884-85) in the fact that many of the certificated teachers betake themselves to other and more lucrative occupations than that of a schoolmaster. Instead of paying fees, when at school, like other students, they receive stipends, paid with the object of inducing them to adopt a particular profession, and when they leave school they are not bound to follow that profession. It is difficult to find any remedy for this except by improving the position of vernacular teachers in middle schools throughout the country—a change involving largely increased expenditure both on Government middle schools and in grants-in-aid. The guru training classes are doing useful work, and 181 gurus received certificates during the year. The outturn of these classes is, however, far below the requirements of the province; and shortly before the close of the year an arrangement was sanctioned for training 500 gurus annually in classes to be attached to middle schools, at an annual cost of Rs. 6,000. The scheme is being extended to all parts of Bengal. The aided training schools at Barrackpore, Krishnagar, and Ranchi, all for Native Christians, the two schools for Sonthals at Bhimpore and Bishenpore, and the Scotch Mission school at Darjeeling, are reported to be doing useful work and to have advanced in numbers. There are three aided schools for mistresses, and from one of these—the Free Church Normal school—a pupil passed at the First Arts Examination of 1886.

25. Law schools have increased from eight to ten, owing to the opening of law classes in connexion with the Ripon and Jagannath Colleges. The total average attendance for all schools was 947, against 765 in the preceding year. At the University examination 119 candidates qualified for the degree of Bachelor of Law, against 77 in the previous year. The total number of students in medicine has declined from 804 to 752. There has been a large increase in the Calcutta Medical College and the Campbell School at Sealdah, but the attendance at the Patna Medical School has fallen from 151 to 92—a result which is ascribed to the backwardness of middle education in Behar, and the consequent difficulty of keeping up a supply of students who have passed the middle scholarship examination. The question of revising the standard of admission to the school is under consideration. From the Calcutta Medical College, 14 candidates passed the first and 28 the final University examination; three native *dais* and five pupil-nurses also received certificates of qualification in midwifery. The hostel for female students of medicine, which has been constructed from the munificent gift of Rs. 1,50,000 made by Her Highness the Maharani Sarnamayi, is now complete and ready for occupation. The Lieutenant-Governor has ordered that girls shall be eligible for admission to the Medical College after passing the University Entrance Examination; and that, on passing the college examination after a three years' course of classes and practical instruction, they shall be entitled to certificates qualifying them to practise medicine, surgery, and midwifery. A grant of Rs. 3,000 was sanctioned by the Lieutenant-Governor for furnishing the hostel, and Sir Walter deSouza contributed a sum of Rs. 2,400 for the provision of scholarships. From the medical schools at Dacca, Patna, and Cuttack, 37, 33, and 8 students, respectively, passed the final examination qualifying them for employment as civil hospital assistants.

26. The Engineering College at Seebpore contained 52 and 104 students in the Engineer and Apprentice Departments respectively—a slight advance on the numbers of the previous year. Of six candidates for the University License in Engineering, three passed. Of 13 apprentices, 12 passed the final examination and entered upon their practical course. These last have no difficulty in obtaining employment, partly owing to the excellent workshop training they receive. Of the Engineering Department the Director has formed a less favourable opinion, and he has proposed the appointment of a Committee to enquire into the subject. This suggestion is at present under consideration. The College is under the superintendence of a body of Governors whose aid might be invoked in the solution of any difficulties of working.

27. The three survey schools at Dacca, Patna, and Cuttack contained 201 students against 156 the year before. At the final examination, out of 72 second-year students, 61 passed and obtained certificates. These schools are uniformly popular and successful, and the passed students find good employment without difficulty.

Survey schools.

28. The School of Art in Calcutta suffered a serious blow in the death of Mr. H. H. Locke, who, during the many years of his Principalship, laboured to raise the institution to a high point of excellence. He was succeeded by Mr. Schaumburg, whose services promised to be of great value to the school, especially in the development of industrial art; but he also unhappily died very shortly after his appointment. The institution was then placed, pending the appointment of a Principal from England, in charge of the Assistant Principal, Signor Ghilardi. Progress is being made in the wood-carving and metal-chasing classes, to which a more practical turn has been given. The modelling class promises well, though the attendance is small; and a new development is likely to be given to this class in the production of a series of ethnological models of the kind that attracted so much attention in the Colonial and Indian Exhibition held in London in 1886. The resuscitation of Indian decorative art is also being attempted, though the class is not as yet very popular. Signor Ghilardi remarks:—"If our 163 students were asked which branch of the profession they would rather cultivate, the majority of them would answer portrait-painting. A decorative painter is not held in great esteem among Indians, and is considered little better than a common mechanic. The Musulmans on this point show better judgment." From the accumulations of the grant to the Art Gallery, a large number of paintings were purchased in England at a cost of £ 787, chiefly through the instrumentality of Lord Northbrook, to whose services and assistance the gallery has been greatly indebted ever since its foundation. Lord Northbrook also presented the gallery with four water-colour paintings.

The School of Art.

29. There are eight industrial schools in Bengal, four of which receive grants from Government, and two from the municipalities of Moorshedabad and Berhampore. The Maisadal technical school at Midnapore promises to become a very useful institution, and the Lieutenant-Governor has recently sanctioned a grant of Rs. 50 a month towards its support. The whole subject of technical education is receiving careful attention; and it is to be hoped that—whatever may be done with regard to the larger schemes of advanced instruction that have been proposed—a beginning may at any rate be made by establishing, at all industrial centres, schools designed to make the artisans who attend them better and more skilful workmen in their particular handicrafts. The East Indian Railway has taken the lead in this matter by establishing, in connection with their more important workshops, schools of technical instruction for the workmen and their children.

Industrial schools.

30. The following table shows the advance that has been made in female education during the past year :—

	1884-85.		1885-86	
	Schools.	Pupils.	Schools.	Pupils.
<i>Girls' Schools.</i>				
Maintained by the Department ... ..	2	186	2	201
Ditto by Municipal Boards ... ..	4	160	4	159
Aided by the Department or by Municipal Boards ... ..	2,168	37,662	2,048	39,215
Unaided ... ..	135	2,789	242	3,746
Total ... ..	2,309	40,797	2,296	43,321
Girls in boys' schools ... ..	.....	35,749	.....	34,716
GRAND TOTAL ... ..	2,309	76,546	2,296	78,037

Of these schools, three are high English, four middle English, 15 middle vernacular and 274 upper primary. The rest are lower primary schools, mostly aided from the primary grant, at an average cost to the State of Rs. 18 a year. The total cost of female education in Calcutta was Rs. 2,95,842, of which Government contributed Rs. 1,07,216. The Bethune School had 142 pupils in the lower, and five in the upper or college department. One girl passed the Entrance examination from this school, and two the B. A. examination—one of them, Miss Kamini Sen, taking honours in Sanskrit. Two young ladies from other institutions, not included in the foregoing table—namely, the Doveton and the Free Church Normal School—passed the First Arts examination. From the Eden Female School at Dacca one candidate passed the Entrance examination. The third high school is the Christ Church girls' school in Calcutta, ably managed by Miss Neele, and chiefly intended for native converts. Most of the girls' schools in Calcutta are under missionary management, in connection with one or other of the zenana agencies. According to the report of Mrs. Wheeler, the Inspectress of Schools, a very considerable advance has been made in the elementary education of girls. The total number that passed by her standards was 1,573, or more than double the number of the previous year. The Church of England and the American Zenana Missions were the most successful. Outside the sphere of missionary agency, there are 54 lower primary schools in Calcutta with 1,359 pupils, and 29 girls' classes attached to boys' schools with 239 pupils. These are the result of less than two years' work, under the system introduced in August 1884 for opening girls' schools and classes aided by capitation grants; the maximum grant which a teacher can earn under this system being Rs. 10 a month. The total expenditure on these schools was Rs. 2,647, of which Rs. 2,328 were contributed by Government.

31. Outside Calcutta there has been a slight decline in the number of girls' schools, but a considerable increase in that of pupils. In the Burdwan Division the scholarship and prize examinations held by the Uttarpara Hitakari Sabha have been brought into close conformity with the departmental standards; and the schools of the Midnapore district, which formerly held aloof, now send candidates to these examinations. In the Beerbhoom district a Mahomedan girl for the first time won a scholarship offered for competition by the Sabha. In Midnapore a Sonthal girl won a prize of the value of Rs. 15. In the Presidency, Dacca, and Chittagong Divisions also the local Sabhas or unions are largely instrumental in promoting female education. In the districts of Eastern Bengal there has been a large loss of pupils, which is ascribed partly to the general levying of fees in the girls' schools. In Tipperah, however, there is a large increase, due to the raising of the capitation grant for girls making satisfactory progress. In these two divisions 12 girls passed the upper and 194 the lower primary scholarship examination, the Dacca Division contributing by far the largest share. The Patna Division is backward in female education, the only fairly good schools being those attended by Bengali girls. In the Bhagulpore Division three special schools for Sonthal girls have been opened in the Bhagulpore and Sonthal Pergunnahs districts. In Orissa an exceptionally large number of girls passed the lower primary scholarship examination. The girls' schools in this division are said to be placed on a sound and satisfactory footing.

European Education.

32. The following table shows the number of schools for Europeans in two successive years:—

CLASS.	Number of schools.		Number of scholars.	
	1885.	1886.	1885.	1886.
Government ... ..	1	1	92	94
Aided ... ..	53	51	5,033	4,951
Unaided ... ..	15	10	1,264	1,053
Total ... ..	69	62	6,389	6,098

There is no real loss, the reduction being due partly to the transfer of two schools to the head of charitable institutions, and partly to the non-submission



of returns by a few private schools. The most important event during the year under report was the definite substitution of payment-by-results for fixed grants. The provisional scale of grants given in the draft Code of 1882 came to an end at the close of 1884-85, and a revised scale on a more definite principle was sanctioned for 1885-86.

33. At the examination for scholarships and certificates under the Code, there was a large increase in the number of candidates, especially of those for primary scholarships and certificates. At the middle examination, the candidates increased from 73 to 96; at the primary examination from 247 to 396. The percentage of passes fell from 48 to 45 at the middle examination, but rose from 66 to 72 at the primary. At both examinations the percentage was greater for girls than for boys. At the primary examination, two-thirds of the girls, but only one-half of the boys, were placed in the first and second division. The large increase in the number of candidates for certificates confirms the view expressed last year that the popularity of the examination depends less upon the pecuniary rewards attached to it than upon the publicity given to the results by their announcement in the *Calcutta Gazette*. In the annual school examinations there was a slight increase in the total number of pupils presented for examination from 3,375 to 3,397. The increase was general in the higher standards, the loss in the lower being accounted for by the omission of three primary schools that were examined in the previous year. On the whole, the Lieutenant-Governor is glad to be able to record his opinion that the working of the Code has been entirely satisfactory.

#### Mahomedan Education.

34. The following statement gives the number and percentage of Mahomedan pupils in different classes of schools:—

	Total number of pupils.	Number of Mahomedans.	Percentage of Mahomedans.
<i>Public institutions.</i>			
Arts colleges ... ..	2,998	140	4.6
High English schools ... ..	58,105	5,520	9.5
Middle ditto ... ..	54,378	6,632	12.1
Middle vernacular schools ... ..	64,752	8,457	13.06
Upper primary ditto ... ..	123,242	20,548	16.6
Lower ditto ditto ... ..	1,019,072	315,259	30.9
Professional colleges ... ..	1,193	35	2.9
Technical schools ... ..	1,966	487	24.7
Normal ditto ... ..	1,258	66	5.2
Madrassas ... ..	1,316	1,315	100.0
Total ... ..	1,328,280	358,459	26.9
<i>Private institutions.</i>			
Advanced ... ..	24,212	18,538	76.5
Elementary ... ..	5,537	2,845	51.3
Total ... ..	29,749	21,383	71.8
GRAND TOTAL ... ..	1,358,029	379,842	27.9

The percentage of the Mahomedan population in the parts of Bengal which have submitted returns is 31.5 per cent. and the proportion among those under instruction is not much less. The deficiency is in the upper walks of education, the Mahomedans sending, for instance, to Arts Colleges less than one-sixth of the number which might have been expected. The total number of Mahomedan pupils has fallen from 420,768 to 379,842, and the percentage from 28.6 to 27.9, owing to the exclusion of small primary schools from the returns. On the other hand, the Lieutenant-Governor notices with satisfaction that the number of Mahomedans in Arts Colleges has risen from 129 to 140, in high English schools from 5,096 to 5,520, and in middle English schools from 6,223 to 6,632. These figures show that the appreciation of the Mahomedan community for English education is steadily growing. The results of the University examinations of 1885 and 1886 point in the same direction. The number of Mahomedans passing the Entrance examination in

1885 was 44; in 1886 it was 51. At the First Arts examination the numbers were 12 in 1885 and 31 in 1886; for the B. A. degree four in 1885 and 19 in 1886; and for the M. A. degree one in 1885 and two in 1886. To help them still further in this respect, the Lieutenant-Governor has recently sanctioned the foundation of 20 scholarships awardable to Mahomedans on the results of the Entrance examination, and a like number on the results of the First Arts examination. It is hoped that, with the special aid now offered, and with the assistance liberally given by the more enlightened Mahomedans, they will be able before long to meet all other sections of the community on more equal terms.

35. The central examination of Bengal madrassas was held in April 1885, when 206 candidates appeared and 120 passed. Pupils from the richly endowed madrasa at Sasseram, in the district of Shahabad, appeared for the first time at this examination, and with success. The estimated income of the Mohsin Endowment Fund during 1885-86 was Rs. 59,452, the estimated expenditure Rs. 57,426, and the actual expenditure Rs. 52,351, of which Rs. 28,857 were spent upon the maintenance of the madrassas supported from this endowment, and the remainder chiefly upon the English education of Mahomedan students.

36. The total number of pupils coming under this class has declined from 33,151 to 29,906, owing to the general causes already described. Some progress is, however, reported in the education of these races. The American Baptist Mission in Midnapore has increased the number of its "jungle schools" for Sonthal children from 52 with 1,245 pupils to 72 with 1,879 pupils. Two Sonthal boys passed the middle scholarship examination for the first time in that district. There are two training schools for Sonthals in the Burdwan Division—one at Bhimpore in Midnapore, the other at Bissenpore in Bankoora. In Beerbhoom also there are 18 schools for the education of Sonthals. In the Rajshahye Division the Bhutea Boarding School at Darjeeling trains 31 pupils of the hill races to a considerable standard in English; and the Scotch Mission schools give an elementary vernacular education to the children of coolies on the tea gardens and others. In the Chittagong Division the bulk of the aboriginal pupils are the Barua Mugs in the plains, and the Joomia Mugs and Chakmas in the Hill Tracts of Chittagong; it is for the two last named races that the boarding schools at Rangamati and Bandarban are kept up. These pupils gained some success at the middle and upper primary scholarship examinations of the division. In the Sonthal Pergunnahs the education of Sonthals is carried on by the Government, the Church Mission Society and the "Home Mission" under Messrs. Boeresen and Skrefsrud. The Government scheme for the Damin-i-Koh is working well, and more schools are needed. Both the Church Mission Society and the Home Mission have admirable schools for girls, superintended by the ladies of the Mission. The Chota Nagpore Division contains the largest number of aboriginal pupils. Two Kol candidates appeared at the last Entrance examination from the Ranchi School, and one passed, gaining a junior scholarship of Rs. 10 a month, which he now holds in the Burdwan Maharaja's College. This is the first instance of a pupil of aboriginal birth being successful at any University examination. Five candidates from this division passed the middle scholarship examination, 24 the upper primary, and 150 the lower primary. A part of the educational work in Chota Nagpore is in the hands of four missionary societies, namely, the Berlin Evangelical, the Society for the Propagation of the Gospel, the Free Church of Scotland, and St. Xavier's, nearly all of which are extending their operations. In the Orissa Tributary Mehals, the special schools for the education of aborigines are the Sonthal schools in Mourbhunj, the Bhuyan schools in Keonjhar, and the cess schools in the Khondmals. There has been some loss of pupils in the Sonthal schools, attributed to a panic created by the untimely death of the Sonthal inspecting pundit, and of a promising Sonthal boy who had passed the minor scholarship examination. Mr. Metcalfe, the Superintendent of the Mehals, remarks:—"The Sonthal inspecting pundit was a young man who had shown great zeal in the cause of Sonthal education, and his death was looked upon as a mark of displeasure of the offended gods." Incidents of this kind show how imperious is the necessity of extending education among a people who are governed by such influences.

37. The total number of indigenous schools on the returns fell from 2,512 to 2,234, but the number of their pupils increased from 27,339 to 29,749. The maktabas and madrassas increased from 940 to 1,302, chiefly in Eastern Bengal. It is stated that the maktabas in Chota Nagpore and in Behar are gradually losing their importance from a secular point of view, owing to the adoption of Hindi as the court language, and that Hindus do not now use these schools as they formerly did for the acquisition of Persian. The number of tols in Bengal decreased from 1,088 to 577, owing to the unauthorised exclusion of tols with less than ten pupils in the Patna Division. "Tols all over the country," the Director remarks, "are generally attended by but few pupils, owing to the fact that the pundit has, in conformity with immemorial tradition, to maintain as well as to teach his scholars. The average number of pupils in a tol is in fact only eight or nine, and in a return of the indigenous agencies of instruction it is necessary to show all that exist." In any future scheme that may be devised for the improvement and encouragement of the tols, it is probable that such encouragement will take the form of rewards to these pundits whose pupils pass a central examination. The pundits will be left to teach after their own methods, without compulsion of any kind from the inspecting officers of the Department; and in this point of view it is indifferent how many pupils a tol has. The Sanskrit title examination was held in April 1885, at which 106 candidates presented themselves and 36 passed—15 in literature, 18 in law, and 3 in philosophy. A second examination was held under the revised rules in February 1886, at which the number of candidates fell to 58 in consequence of the difficulty of the new standard. Of those who presented themselves, 36 again passed—28 in literature, 5 in law, and 3 in philosophy. The question of establishing a lower and preliminary standard of examination, in order to suit the tols, such as those of Behar, which are less advanced, is now under consideration. The Dacca *Saraswat Samaj* held an examination in 1886, at which 233 candidates appeared from 59 tols. The standard appears to be much lower than that of the Sanskrit title examination, and the introduction of the proposed preliminary test would probably meet the requirements of the tols in Eastern Bengal.

38. The thanks of the Lieutenant-Governor are given to Mr. Tawney for his careful administration of the department throughout the year, and to Mr Croft for his able report.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secretary to the Govt. of Bengal.*



## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government during the week ending the 5th February 1887.

No.	District and date of return.	Rainfall at Sadher station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BENGAL.</b>			
<i>Western Districts</i>			
<b>BURDWAN DIVN.</b>	1 Burdwan, Feb. 5, '87	Nil	Weather—continues cold. Prospects of <i>rubbee</i> crops continue good. Common rice 22 to 28 seers per rupee. Health of district fair.
	2 Bankoora, „ 5 „	Nil	Weather—clear and seasonable. Winter crops doing well. Prospects continue favourable. Preparation is being made in places for pressing sugarcane. Public health good.
	3 Beerboom, „ 5 „	Nil	Weather—cold. Winter crops doing well. Outturn of rice excellent. Prices slightly higher. Health of district good.
	4 Midnapore, „ 5 „	Nil	Weather—somewhat warm. Few crops on the ground. Such as there are promise well. Public health normal.
	5 Hooghly, „ 5 „	Nil	Weather—seasonable. Prospects of crops and public health good.
<b>PRESIDENCY DIVN.</b>	Serampore „ „	0.4	
	Howrah, „ 7 „	Nil	Weather—cold; turning hot towards end of week. Ninety-seven per cent. of rice crop reaped. Results very good. Some sugarcane cut.
	<i>Central Districts</i>		
	6 24-Pergha, Feb. 8, '87	Nil	Weather—cool and seasonable. Harvesting of <i>amun</i> paddy nearly completed. <i>Rubbee</i> crops prospering. Cutting and pressing of sugarcane still going on. Cholera abating, and public health good.
	7 Nuddea, „ 5 „	Nil	Weather—very cold during early part of week. Prospects of crops good. Cattle-disease in north-west of district. Public health good.
<b>RAJSHAHY DIVN.</b>	8 Khoolna, „ 5 „	Nil	Weather—seasonable. <i>Amun</i> crop nearly harvested; outturn good. Winter crops promise well. Public health generally good.
	„ Jessore, „ 5 „	0	Weather—seasonable. <i>Amun</i> paddy is being threshed with good outturn. Winter crops, specially oilseeds, have suffered a little owing to want of timely rain. Cases of fever reported from Narail sub-division.
	„ Magurah „ „	3	
	10 Moorshedabad „ 5 „	Nil	Weather—cold and seasonable. <i>Rubbee</i> crops are reported everywhere to be good and promising. Public health generally good.
<b>RAJSHAHY DIVN.</b>	11 Dinagepore, Feb. 4, '87	Nil	Weather—bright and cold. State and prospects of <i>rubbee</i> crops good. Rice selling at from 22 to 28 seers per rupee.
	12 Rajshahye, „ 5 „	Nil	Weather—cloudy; rather warm. Prospects of standing crops generally good. Ganja plants promise an average outturn. Public health fair.
	13 Rungpore, „ 5 „	Nil	Weather—seasonable. State of crops continues good. Public health fair.
	14 Bogra, „ 5 „	Nil	Weather—seasonable. Land is being ploughed for <i>aus</i> . Wheat and pulses growing. Prospects fair. Price of rice stationary. Public health fair.
	15 Pubna, „ 5 „	Nil	Weather—fine and cold. Winter crops doing well. Public health very good.
	16 Darjeeling, „ 5 „	.....	Weather—cold and misty with occasional rain. State and prospects of crops good.
	17 Julpigoree, „ 5 „	0.04	Weather—cold and seasonable. <i>Haimanti</i> rice harvest finished with good outturn. New rice coming to market. Prospects of winter crops good. Sporadic cases of cholera at Tetalya and of fever at Kyranity; otherwise public health good.
<i>Eastern Districts.</i>			
<b>DACCA DIVISION.</b>	18 Dacca, Feb. 5, '87	Nil	Weather—cold. Pulses and mustard are being gathered. Pressing of sugarcane going on. Ploughing for early rice and jute commenced. Public health has improved. Cholera on the decline.
	Munshigunge „ „	0.13	
	Narainigunge „ „	0.11	
	19 Farreedpore, „ 5 „	0.32	Weather—generally cold. <i>Rubbee</i> doing well. Public health fair.
	20 Backergunge, „ 2 „	Nil	Weather—seasonable. Prospects of crops good. Keaping of <i>amun</i> crop nearly finished. Fever continues to prevail in some places. Cholera reported from some stations.
<b>DACCA DIVISION.</b>	21 Mymensingh, „ 4 „	Nil	Weather—cold. Prospects of crops good.
	Kishoregunge „ „	0.17	
	Attia „ „	0.18	
<b>CHITTAGONG DIVN.</b>	22 Chittagong, Feb. 8 „	0.10	Weather—cold and seasonable. Winter crops doing well. Prices of food-grains stationary. A few cases of cholera. Public health good.
	23 Noakholly „ 4 „	0.12	Weather—seasonable. <i>Rubbee</i> crops doing well and promising. State of <i>supari</i> and cocanutt trees good. Cholera still prevails in certain parts. A few cases of small-pox have also occurred.
	24 Tipperah „ 3 „	0.22	Weather—seasonable. State and prospects of winter crops fair. Cholera prevalent all over the district.
	„ Brahmanbariah „ „	0.36	
	„ Chandpur „ „	0.10	
	25 Chittagong Hill Tracts, „ 1 „	0.84	Weather—very cold throughout week. <i>Joom</i> cutting still continues. Sugarcane is being pressed. Mustard, tobacco and other cold-weather crops doing well. Public health generally good.
<b>CHITTAGONG DIVN.</b>	Hill Tipperah, „ 2 „	0.25	Weather—seasonable. Mustard is being gathered. Prospects of winter crops continue favourable. Public health good.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BEHAR.</b>			
PATNA DIV.	26 Patna, Feb. 5, '87	Nil	Weather—cold. <i>Rubbee</i> crops promising well. Poppy has suffered damage in parts of district from caterpillars. Public health generally good.
	27 Siya, " 5 "	Nil	Weather—fair. Prospect of <i>rubbee</i> good. Poppy slightly damaged in Tekari and Pukri Burawan. Public health generally good.
	28 Shamsabad, " 5 "	Nil	Weather—bright and seasonable. Crop prospects excellent. Pressing of sugarcane in progress. Weather favourable to poppy; bright sky and westerly winds have prevailed, and excessive moisture has evaporated. Public health good. Prices stationary.
	29 Durbhunga, " 5 "	Nil	Weather—changeable. Prospects of <i>rubbee</i> favourable. Wheat and barley in ear. Mustard is being harvested in places. Poppy and tobacco doing well. Prices rising. Public health generally good.
	30 Mozufferpore, " 5 "	Nil	Weather—cool and clear. Prospects of <i>rubbee</i> crops excellent. Poppy coming up well, recent rain having benefited the crop considerably. Public health good.
	31 Saran, " 5 "	Nil	Weather—seasonable. Prospects of crops continue favourable. Poppy slightly injured by blight.
BHAGLPORE DIV.	32 Champaran, " 5 "	Nil	Weather—cool and cloudy. Prospects of <i>rubbee</i> crops continue favourable. The most forward plants of poppy are flowering. Prices stationary. Public health fair.
	33 Monghyr, Feb. 5 "	Nil	Weather—clear and seasonable. Outturn of <i>aghani</i> very favourable. Prospects of standing crops continue good. Sporadic cases of small-pox still reported from Begusarai; otherwise public health generally good. Prices stationary.
	34 Bhagulpore, " 5 "	Nil	Weather—cold. Prospects of <i>rubbee</i> crops favourable, but outturn expected to be less than that of last year. Wheat and barley in ear. Public health good.
	35 Purneah, " 5 "	Nil	Weather—becoming warm during the day. Crops doing well, except mustard in Arrareah sub-division.
	36 Maldah, " 5 "	Nil	Weather—fine and cool. Prospects of cold-weather crops continue excellent. <i>Kalai</i> and mustard nearly harvested with full outturn. Rice selling at 24 to 28 seers per rupee. Public health good.
	37 Sonthal Pergah, " 5 "	Nil	Weather—seasonable. Sugarcane is being crushed with average outturn. Other crops doing well. Public health good.
<b>ORISSA.</b>			
ORISSA DIV.	38 Cuttack, Feb. 4 "	Nil	Weather—seasonable. Reaping of <i>sarad</i> rice completed with fair outturn. <i>Dalua</i> rice is being transplanted. Wheat and cotton doing well. Price of rice falling. Public health generally good.
	39 Pooree, " 3 "	Nil	Weather—seasonable. <i>Sarad</i> rice is being threshed and stored. <i>Dalua</i> crop is being transplanted. Common rice 26 seers 9 chittacks per rupee in Sudder sub-division and 26 seers 10 chittacks in Khoorda sub-division. Cases of small-pox and foot-and-mouth disease among cattle reported.
	40 Balasore, " 4 "	Nil	Weather—seasonable. Pressing of sugarcane going on. Pulses are being gathered. Isolated cases of fever and cholera reported from the interior; otherwise public health good.
<b>CHOTA NAGPORE.</b>			
<i>South-West Frontier Agency.</i>			
41	Hazaribagh, Feb. 4, '87	Nil	Weather—clear and cold. <i>Rubbee</i> prospects excellent. Cattle-disease reported from Tandwa thana. Public health good.
42	Loharaugra, " 5 "	Nil	Weather—cold and cloudy. <i>Rubbee</i> promises well. Fall in price of rice noticeable. Cattle-disease reported. General health good.
43	Singbhoom, " 4 "	Nil	Weather—seasonable. Cold-weather crops doing well. Oil-seeds and pulses are being gathered. Cattle-disease in parts of Kolhan. General health good.
44	Manbhoom, " 5 "	Nil	Weather—cold in the morning and night. Prospects of <i>rubbee</i> crops good. Sugarcane is being pressed. Public health good.

Published for general information.

CALCUTTA, REVENUE DEPT.;  
The 8th February 1887.P. NOLAN,  
Offg. Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of June 1886.

## IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS.							FIBROUS PRODUCTS.		OIL-SEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		Tobacco.	
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny-bags.	Linseed.	Mustard-seed.				Drained.	Un-drained.		
	Rice.	Paddy.	Total (in rice).															
<b>BENGAL.</b>																		
Burdwan ...	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Beerbhoom ...	56,947	3,187	60,134	8,581	3,742	463	71,725	17,295	6,191	400	577	2	54	732	...	...	...	
Midnapore ...	21,491	272	21,763	2,440	3,328	...	27,435	6,440	457	277	...	4	335	...	...	...	...	
Hoochly ...	72,086	30,449	102,535	905	217	...	95,989	85	3,844	...	...	47	502	232	...	...	...	
24-Pergunnahs ...	33,138	4,661	37,799	13,531	2,889	16	51,487	1,973	368,115	9,700	4,485	229	21	324	5,634	...	...	
Nudda ...	98,473	16,198	1,08,597	237	1,294	...	1,10,128	1,562	923,759	169	450	2,925	...	6,919	12,798	...	...	
Khulna ...	8,054	...	8,054	68,888	53,139	2,222	1,81,893	3,958	9,835	46,304	1,087	153	350	476	3,100	...	...	
Jessore ...	2,413	13,845	11,006	...	21	...	11,087	60	785	141	...	21	...	1,513	9,210	...	...	
Moorshedabad ...	6,995	3,000	8,879	275	20,299	...	38,444	191	8,569	1,470	...	99	...	200	25,040	...	...	
Dinapore ...	377	...	377	22,142	9,547	311	32,377	...	7,934	1,179	...	165	380	8	...	...	...	
Rajshahye ...	18,357	...	18,357	33	...	...	18,390	1,591	...	...	...	...	...	...	...	...	...	
Rungpore ...	1,008	...	1,008	4,139	2,442	...	7,889	1,577	4,525	97	...	...	...	...	...	...	...	
Sogra ...	2,233	...	2,233	6,570	298	...	8,101	13,005	78,969	298	...	630	...	...	...	3,493	31	
Pubna ...	31,032	242	31,183	...	156	...	31,339	274	484	244	...	...	...	...	...	...	...	
Darjeeling ...	...	...	...	3,504	815	...	4,319	37,070	593,075	8,726	4,656	...	...	...	...	...	316	
Julpigoree ...	...	...	...	...	...	...	...	105	...	...	...	...	...	...	...	...	...	
Dacca ...	2,904	61	3,002	1,033	1,952	...	5,987	8,145	35	2,441	2,582	4,457	...	...	...	223	1	
Furzedpore ...	518	...	518	3,145	16,296	...	19,023	28,153	140	19,336	10,656	1,047	...	...	100	...	...	
Backergunge ...	1,31,801	...	1,21,801	290	2,734	...	1,24,735	1,425	...	1,768	432	...	...	...	...	...	...	
Mymensingh ...	6	...	6	...	...	...	6	...	...	...	...	...	...	...	...	...	...	
Pipparah ...	1,375	...	1,375	...	...	...	1,375	...	325	...	...	...	...	...	...	...	...	
Chittagong ...	200	...	200	...	...	...	200	...	...	...	876	193	...	...	...	...	...	
Noakholly ...	7,069	...	7,069	309	...	...	7,378	...	350	...	...	...	...	...	...	...	...	
<b>Total of Bengal ..</b>	<b>4,86,537</b>	<b>77,915</b>	<b>5,35,234</b>	<b>1,34,838</b>	<b>1,28,139</b>	<b>3,012</b>	<b>8,61,223</b>	<b>98,759</b>	<b>2,099,705</b>	<b>1,14,930</b>	<b>29,638</b>	<b>22,430</b>	<b>9,969</b>	<b>1,702</b>	<b>10,172</b>	<b>57,714</b>	<b>4,032</b>	
<b>BEHAR.</b>																		
Patna ...	8	...	8	1,59,781	68,557	31,654	2,59,990	1,750	3,91,094	60,606	...	61	6	656	3	...	...	
Jya ...	...	...	...	44,336	...	...	44,336	...	6,689	1,105	...	...	4	...	...	...	...	
Shahabad ...	281	...	281	1,14,555	6,461	...	1,21,297	...	48,878	7,629	...	...	...	478	2,969	...	...	
Joynullapore ...	...	...	...	...	7	1,132	1,439	...	9,112	2,274	...	12	...	...	...	...	...	
Durbhanga ...	...	...	...	5,768	...	...	5,768	...	210	72,363	30,528	...	...	...	...	...	...	
Farun ...	...	...	...	...	...	...	...	...	280	1,683	891	...	82	...	...	...	...	
Chumpan ...	...	...	...	25,390	...	...	25,390	...	54,292	5,990	...	...	...	...	...	...	...	
Longuyr ...	...	...	...	86,022	30,232	60	1,16,970	...	595	19,792	4,743	...	11	...	179	...	...	
Shagulpore ...	19	...	19	1,48,017	1,254	8,988	1,58,288	...	14,857	13,357	...	98	10	...	...	...	...	
Turneah ...	4	...	4	2,631	1,939	345	4,910	...	290	4,820	72	...	...	...	842	...	...	
Aladah ...	169	...	169	2,907	1,442	59	3,438	...	1,975	251	...	...	...	...	...	...	...	
Donthal Pergun- nahs ...	35	...	35	97,507	12,421	1,166	1,11,219	...	1,120	7,705	39,201	...	33	170	...	...	...	
<b>Total of Behar ...</b>	<b>507</b>	<b>...</b>	<b>507</b>	<b>6,89,814</b>	<b>1,22,954</b>	<b>43,710</b>	<b>8,53,085</b>	<b>32</b>	<b>5,353</b>	<b>6,21,649</b>	<b>1,77,366</b>	<b>72</b>	<b>298</b>	<b>190</b>	<b>1,323</b>	<b>3,814</b>	<b>6</b>	
<b>ORISSA.</b>																		
Balasore ...	13,974	19,527	26,178	2,866	270	...	29,314	...	3,290	69	500	...	...	...	...	...	...	
<b>Total of Orissa ...</b>	<b>13,974</b>	<b>19,527</b>	<b>26,178</b>	<b>2,866</b>	<b>270</b>	<b>...</b>	<b>29,314</b>	<b>...</b>	<b>3,290</b>	<b>69</b>	<b>500</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	
<b>CHOTA NAGPORE.</b>																		
Lazaribagh ...	...	...	...	...	...	...	...	...	945	...	271	170	...	14	...	...	...	
<b>Total of Chota Nagpore.</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>945</b>	<b>...</b>	<b>271</b>	<b>170</b>	<b>...</b>	<b>14</b>	<b>...</b>	<b>...</b>	<b>...</b>	
<b>Grand Total of supplies from the Provinces under the Lieutenant- Governor of Ben- gal.</b>	<b>5,01,018</b>	<b>97,442</b>	<b>5,61,919</b>	<b>8,24,518</b>	<b>2,50,463</b>	<b>40,722</b>	<b>10,85,622</b>	<b>98,791</b>	<b>2,109,205</b>	<b>7,36,699</b>	<b>2,07,175</b>	<b>22,672</b>	<b>10,267</b>	<b>1,906</b>	<b>11,495</b>	<b>61,528</b>	<b>4,032</b>	
<b>OTHER PROVINCES.</b>																		
Assam ...	22	709	469	535	48	...	1,945	293	12,530	1,10,363	19,896	331	8	...	...	...	...	
North-Western Pro- vinces and Oudh ...	4	...	4	10,39,279	76,328	...	11,15,611	...	735	2,56,582	...	847	24,931	9	384	56	...	
Punjab ...	17	...	17	274	18,613	...	18,904	...	...	3,189	682	8,308	...	...	...	...	...	
Central Provinces ...	...	...	...	...	642	...	642	...	175	...	...	2,945	...	...	...	...	...	
Madras States ...	...	...	...	...	...	...	...	...	...	...	...	1	10,963	1	...	...	...	
Coastal ...	...	...	...	...	...	...	...	...	...	...	...	79	2,149	...	4,459	17	...	
British Burmah ...	...	...	...	...	31	...	31	...	900	...	...	93	...	...	...	...	...	
Other places ...	8	...	8	...	7	...	15	...	...	...	36	...	21	42,290	4,297	...	...	
<b>Grand Total (1886 Imports June 1886)</b>	<b>5,01,069</b>	<b>98,142</b>	<b>5,62,408</b>	<b>18,64,606</b>	<b>2,46,925</b>	<b>46,729</b>	<b>28,19,768</b>	<b>99,084</b>	<b>2,111,015</b>	<b>10,42,811</b>	<b>3,20,727</b>	<b>41,213</b>	<b>68,087</b>	<b>1,945</b>	<b>58,338</b>	<b>65,893</b>	<b>4,032</b>	
<b>Grand Total (1886 Imports June 1886)</b>	<b>5,94,559</b>	<b>1,27,656</b>	<b>6,74,314</b>	<b>7,26,316</b>	<b>1,74,972</b>	<b>59,398</b>	<b>10,35,030</b>	<b>3,14,411</b>	<b>1,513,357</b>	<b>4,84,828</b>	<b>2,94,598</b>	<b>40,939</b>	<b>50,322</b>	<b>1,796</b>	<b>23,421</b>	<b>73,535</b>	<b>7,443</b>	

\* One maund of paddy is equivalent to 25 seers of rice. † Exclusive of bags obtained by local manufacture

The Sea-borne Trade of Calcutta in these Staples during the month of June 1886 was as follows.—

EXPORTED FROM CALCUTTA—																
To Indian ports, viz.—																
Bombay ...	63,896	30	63,855	...	11,797	29	11,797	49	635,150	...	342	478	...	1,485	...	...
Madras ...	1,255	...	1,255	...	62,921	216	62,921	...	255,406	...	8	...	424	...	5	...
Other ports in Madras ...	121	...	121	105	12,730	...	12,835	2,465	165,400	...	1	...	11	16	...	...
British Burmah ...	2,351	...	2,351	245	8,658	...	8,903	178	369,900	...	31	...	1	163	...	12,5
Other Indian ports ...	50,157	1,233	50,928	...	2,349	26	2,375	...	112,950	...	6	8	...	633	187	2,4
Pondicherry ...	...	...	...	...	1,485	...	1,485	...	69,500	...	...	...	...	...	...	...
<b>Total of Inter- portal trade ...</b>	<b>1,17,720</b>	<b>1,263</b>	<b>1,18,510</b>	<b>350</b>	<b>98,950</b>	<b>261</b>	<b>99,561</b>	<b>2,692</b>	<b>1,008,366</b>	<b>...</b>	<b>388</b>	<b>486</b>	<b>439</b>	<b>3,128</b>	<b>355</b>	<b>14,8</b>
To Foreign ports—																
United Kingdom ...	42,064	...	42,064	15,51,486	26,160	...	15,77,646	86,320	369,000	11,56,796	2,03,042	32,287	21,474	25	...	...
Other Foreign ports ...	3,68,470	...	3,68,470	5,09,624	50,610	24,405	5,75,639	1,65,828	3,047,875	1,67,350	1,481	261	16,119	907	24	...
<b>Total of Foreign trade ...</b>	<b>4,10,534</b>	<b>...</b>	<b>4,10,534</b>	<b>20,52,110</b>	<b>76,770</b>	<b>24,405</b>	<b>21,53,285</b>	<b>2,62,148</b>	<b>3,417,475</b>	<b>13,14,146</b>	<b>2,04,523</b>	<b>32,548</b>	<b>37,593</b>	<b>932</b>	<b>24</b>	<b>...</b>
<b>Grand Total (1886 of Exports June 1886)</b>	<b>5,28,254</b>	<b>1,263</b>	<b>5,29,044</b>	<b>20,52,400</b>	<b>1,75,720</b>	<b>24,096</b>	<b>22,52,946</b>	<b>2,64,840</b>	<b>5,025,841</b>	<b>13,14,146</b>	<b>2,04,523</b>	<b>32,936</b>	<b>38,079</b>	<b>1,368</b>	<b>3,152</b>	<b>355</b>
<b>Grand Total (1886 of Exports June 1886)</b>	<b>5,18,678</b>	<b>679</b>	<b>5,19,093</b>	<b>8,86,477</b>	<b>58,714</b>	<b>17,577</b>	<b>14,81,771</b>	<b>2,25,910</b>	<b>5,176,746</b>	<b>6,22,885</b>	<b>91,188</b>	<b>38,027</b>	<b>25,008</b>	<b>1,491</b>	<b>2,781</b>	<b>3,070</b>



The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of June 1886.

## IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drain- ed.	Un- drained.	Bis- path.	Other kinds.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	3,01,822	70,561	1,12,008	96,140	3,460	19,696	1,281,135	70,657	25,268	.....	1,280	587	4,097	33,175	...	9,587
.. river steamers ...	258	.....	7,005	138	.....	28,577	.....	1,989	46,519	12,182	961	.....	.....	.....	169	990
.. rail { East Indian Rail- way.	76,394	2,537	17,21,852	2,14,618	43,262	.....	28,009	9,12,392	2,32,742	2,349	35,690	981	1,715	3,028	...	7,916
.. road { Eastern Bengal	66,450	303	20,180	34,724	.....	49,474	772,730	58,231	14,698	28,691	5,648	356	.....	19,439	3,893	36,446
.. sea ...	42,471	6,414	95	101	.....	1,337	25,959	85	.....	.....	2,230	.....	6,967	5,372	...	8,127
	13,674	18,527	2,866	301	7	.....	4,100	69	590	191	22,308	21	46,639	4,314	...	493
Grand Total of Imports in June 1886 ...	5,01,069	98,142	18,64,006	3,46,025	46,729	99,684	2,111,015	10,42,811	3,29,727	44,213	68,687	1,945	58,538	65,898	4,032	62,659
June 1885 ...	5,94,559	1,27,576	7,26,816	1,74,972	59,398	8,14,411	1,513,337	4,84,828	2,94,598	49,959	50,622	1,796	23,422	73,535	7,443	61,554

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of June 1886.

## EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.	Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.				European.	Indian.	European.	Indian.		
<b>BENGAL.</b>	Rs.	Rs.	Mds.	Mds.	Mds.	No.	<b>CHOTA NAGPORE.</b>	Rs.	Rs.	Mds.	Mds.	Mds.	No.
Burdwan ...	2,04,684	550	653	2,090	34,425	56,745	Hazaribagh ...	12,780	.....	.....	83	8,312	3,150
Beerbhoom ...	1,08,864	1,430	96	647	18,173	29,510	Manbloom ...	23,805	.....	31	1,615	15,137	2,765
Midnapore ...	1,18,068	.....	2,252	.....	61,855	2,639	Total of Chota Nagpore	38,682	.....	31	1,698	23,440	5,915
Booghly ...	85,460	8,867	619	152	2,627	26,626	Grand Total of supplies into the provinces under the Lieutenant-Governor of Bengal.	51,34,029	46,452	16,943	8,940	6,73,921	1,694,620
14-Pergunnahs ...	1,47,999	12,101	691	.....	11,123	6,794	<b>OTHER PROVINCES.</b>	4,95,143	440	296	14	23,820	385
Nuddes ...	1,80,921	.....	1,751	.....	21,750	27,066	Assam ...	.....	.....	.....	.....	.....	.....
Khulna ...	80,139	.....	107	.....	5,442	245	North-Western Provinces and Oudh ...	18,82,314	18,376	6,826	1,024	67,569	772,459
Jessore ...	1,93,868	.....	967	.....	22,000	7,825	Punjab ...	6,71,591	220	1,656	.....	.....	613,760
Moorshedabad ...	50,789	5,060	15	24	5,963	6,070	Central Provinces ...	24,759	.....	86	.....	.....	28,593
Dumakepore ...	81,522	.....	152	.....	4,523	8,190	Rajputana States ...	11,655	119	233	7	271	14,105
Rajshahye ...	2,44,629	.....	123	.....	19,254	1,829	Bombay ...	2,780	5,170	34	.....	.....	636,419
Rungpore ...	2,56,482	.....	353	.....	11,859	5,915	Nizam's Territory ...	.....	.....	.....	.....	.....	.....
Bogra ...	1,48,176	.....	83	.....	5,713	26,985	Madrass ...	92,715	85	1,775	.....	.....	420,866
Pubna ...	1,70,478	.....	484	.....	32,183	2,520	Sind ...	.....	.....	.....	.....	.....	57,000
Darjeeling ...	20,979	.....	69	.....	742	1,829	Pondicherry ...	.....	.....	.....	.....	.....	49,500
Jalpigoree ...	82,341	1,870	214	.....	12,891	1,015	British Burmah ...	2,32,240	47	415	2,729	.....	369,090
Dacca ...	6,29,285	.....	2,941	.....	21,993	14,632	Other places ...	25,576	3,165	29	886	.....	3,417,475
Furzedpore ...	2,10,252	.....	620	.....	33,108	8,365	Grand Total of 1886 ...	87,85,971	74,069	27,390	13,591	7,45,572	8,005,066
Backersunge ...	64,970	.....	565	.....	39,837	245	Exports in June 1886 ...	1,15,17,315	56,661	25,715	14,393	6,57,811	7,146,459
Mymensingh ...	1,15,794	.....	111	11	900	3,462	The Sea-borne Trade of Calcutta in these Staples during the month of June 1886 was as follows:—						
Tipperah ...	99,629	84	128	.....	2,800	.....	<b>IMPORTED INTO CALCUTTA.</b>	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
Chittagong ...	10,681	.....	.....	.....	4,925	.....	From Foreign Ports—						
Noakholly ...	.....	.....	.....	.....	.....	.....	United Kingdom ...	1,14,27,441	.....	19,275	.....	5,73,031	.....
Total of Bengal ...	32,15,841	29,962	11,094	2,024	3,71,288	229,136	Other foreign ports ...	15,456	.....	316	.....	1,89,299	.....
<b>BEHAR.</b>							Total of Foreign Trade ...	1,14,42,897	.....	19,691	.....	7,62,231	.....
Patna ...	3,90,159	2,090	321	427	87,389	565,670	From Indian Ports—						
Gya ...	62,118	.....	66	536	19,413	31,815	Bombay ...	5,538	1,82,707	.....	7,992	19,882	.....
Shahabad ...	4,05,972	.....	1	462	19,475	95,395	Madrass ...	494	3,462	5	.....	.....	.....
Muzafferpore ...	89,712	3,740	.....	25	6,416	19,435	Other Ports in Madras ...	186	.....	.....	15	.....	.....
Durbhanga ...	2,52,000	4,290	9	990	53,415	125,775	British Burmah ...	3,771	209	.....	.....	.....	900
Sarun ...	5,040	4,290	.....	72	1,854	12,469	Other Indian ports ...	.....	.....	.....	2	.....	3,290
Chumpanua ...	3,22,434	1,650	.....	13	16,747	137,970	Total of Interprovincial Trade ...	3,558	1,55,359	6	8,009	19,852	4,100
Monkhyr ...	63,945	.....	6	388	9,575	129,500	Grand Total of 1886 ...	1,14,52,886	1,56,669	15,696	8,009	7,82,114	4,100
Shagulpore ...	89,619	440	88	164	15,213	103,665	Imports in June 1886 ...	94,51,944	1,15,946	16,892	5,677	7,47,461	4,900
Purneah ...	1,93,347	.....	134	397	4,050	1,345							
Maidah ...	200	.....	.....	.....	5,775	.....							
14th Pergunnahs ...	2,00,151	.....	128	562	35,565	90,685							
Total of Behar ...	20,74,097	16,500	753	3,746	2,74,917	1,318,625							
<b>ORISSA.</b>													
Balasore ...	1,05,400	.....	3,265	572	4,767	55,950							

\* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of June 1886.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats ...	2,61,203	8,897	4,116	.....	2,20,434	49,561
.. river steamers ...	3,15,027	.....	307	25	21,945	7,379
.. rail { East Indian Railway	50,68,917	42,460	10,132	9,254	4,06,592	2,516,520
.. road { Eastern Bengal State Railway	24,19,704	2,319	6,492	.....	99,615	109,765
.. sea ...	1,60,473	12,101	709	134	4,776	5,009
	5,60,647	8,331	5,643	4,178	12,259	5,025,841
Grand Total of Exports in June 1886 ...	87,85,971	74,069	27,390	13,591	7,65,572	8,005,066
June 1885 ...	1,15,17,315	56,664	25,715	14,393	6,57,811	7,146,459

STATISTICAL DEPARTMENT,  
The 5th February 1887.

P. NOLAN,  
Offg. Secretary to the Govt. of Bengal.

## STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

STOCK IN HAND AS COMPILED ON—

NAMES OF MARKS.	1st week of Feb. 1886.	1st week of Mar. 1886.	1st week of April 1886.	1st week of May 1886.	1st week of June 1886.	1st week of July 1886.	1st week of August 1886.	1st week of Sept. 1886.	1st week of Oct. 1886.	1st week of Nov. 1886.	1st week of Dec. 1886.	1st week of Jan. 1887.	1st week of Feb. 1887.
Baliachatta	Mds. 5,95,000	Mds. 10,54,000	Mds. 10,74,000	Mds. 9,87,000	Mds. 12,59,000	Mds. 8,43,000	Mds. 5,53,000	Mds. 5,06,500	Mds. 5,60,000	Mds. 5,81,900	Mds. 3,11,000	Mds. 2,89,000	Mds. 4,15,500
Doldadanga	" 58,000	" 64,600	" 68,500	" 65,600	" 64,800	" 68,700	" 57,300	" 50,500	" 54,800	" 56,500	" 29,900	" 47,700	" 53,900
Chitpore, Golabaree, Coomer- tooli, Hakthola, and Culp ghat	" 4,55,000	" 5,06,500	" 5,32,300	" 5,31,900	" 5,21,500	" 5,25,300	" 5,65,200	" 5,60,800	" 6,37,400	" 6,26,100	" 8,45,100	" 7,75,900	" 7,68,700
Pathurichatta, Posts, and Jorabagan.	" 4,500	" 4,000	" 7,000	" 6,000	" 5,400	" 4,000	" 3,700	" 3,000	" 4,000	" 5,000	" 4,000	" 6,000	" 5,000
Talykunge, Chittah, Kadderpore, and Moonsikunge.	" 1,19,000	" 1,35,900	" 1,44,900	" 1,35,300	" 1,46,400	" 1,21,800	" 1,32,400	" 1,28,000	" 1,25,300	" 1,15,300	" 1,48,400	" 1,23,800	" 1,55,400
21 Minor Bazars (estimated) ...	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000
Other retail shops, 3,129 in number (estimated).	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000
Hoidyabatty, Nowabgunge, Bhuddesur, and Chander- nagore.	" 8,454	" 7,518	" 11,421	" 12,043	" 14,769	" 14,683	" 15,477	" 35,752	" 30,450	" 28,114	" 7,200	" 5,059	" 5,139
Total	17,33,954	22,65,818	23,28,191	22,27,848	25,02,109	20,67,453	18,20,077	17,74,552	19,02,950	17,02,914	13,38,000	17,37,459	18,90,639
On Railway premises on both sides of the river.	91,225 (on 4th Feb. 1886.)	7,401 (on 3rd Mar. 86.)	16,824 (on 3rd April 86.)	11,739 (on 4th May 86.)	5,980 (on 3rd June 86.)	3,729 (on 3rd July 86.)	3,626 (on 3rd August 86.)	11,011 (on 4th September 86.)	6,628 (on 2nd Oct. 1886.)	11,604 (on 4th Nov. 86.)	7,318 (on 4th Dec. 86.)	21,920 (on 4th Jan. 87.)	16,358 (on 5th Feb. 1887.)
On boats up- missioners' re- turned.	60,924 (1st to 3rd Feb. 1886.)	59,687 (1st to 3rd Mar. 86.)	20,980 (1st to 3rd April 86.)	23,151 (1st to 3rd May 86.)	18,035 (1st to 3rd June 1886.)	19,137 (1st to 3rd July 1886.)	96,469 (1st to 3rd August 86.)	35,147 (1st to 3rd September 86.)	32,144 (1st to 3rd Oct. 1886.)	23,219 (1st to 3rd Nov. 86.)	30,278 (3rd to 5th Dec. 86.)	75,353 (2nd to 4th Jan. 1887.)	81,401 (1st to 3rd Feb. 1887.)
By Canal returns	1,55,946 (1st to 3rd Feb. 1886.)	1,00,323 (1st to 3rd Mar. 86.)	33,779 (1st to 3rd April 86.)	10,535 (1st to 3rd May 86.)	19,117 (1st to 3rd June 86.)	24,286 (1st to 3rd July 1886.)	15,736 (1st to 3rd August 86.)	38,339 (1st to 3rd September 86.)	44,919 (1st to 3rd October 86.)	24,281 (1st to 3rd Nov. 86.)	21,411 (3rd to 5th Dec. 86.)	78,233 (2nd to 4th Jan. 1887.)	1,51,101 (1st to 3rd Feb. 1887.)
Grand Total of Stocks	19,71,040	24,33,228	23,99,774	22,78,593	25,45,241	21,14,651	19,35,918	18,57,069	19,76,641	17,64,018	15,97,507	19,16,045	21,45,539
Probable stock available for exportation by sea.	9½ lakhs.	13½ lakhs.	13½ lakhs.	12½ lakhs.	14½ lakhs.	10½ lakhs.	8½ lakhs.	8 lakhs.	9½ lakhs.	7½ lakhs.	8½ lakhs.	8½ lakhs.	11 lakhs.

STATISTICAL DEPARTMENT,  
The 7th February 1887.P. NOLAN,  
Offg. Secretary to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE  
DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE  
31ST JANUARY 1887.



*PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the*

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU (Sorghum Vulgare.)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
BENGAL.																
Western Districts.																
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 0	14 0	14 8	...	...	...	20 8	20 8	16 2	26 10	26 10	18 12	...	...	...
2	Bankoora	13 12	16 0	16 8	24 0	24 0	18 0	18 12	20 0	19 0	...	24 6	22 0	...	...	...
3	Peerbhoom	19 8	20 0	14 4	...	...	...	18 0	29 8	12 0	25 8	25 8	17 8	...	...	...
4	Midnapore	16 0	16 0	14 0	...	...	...	17 0	18 0	15 0	26 0	27 0	20 0	...	...	...
5	Hooghly	14 0	15 0	16 0	...	...	...	10 0	10 0	10 0	17 0	17 0	14 0	...	...	...
	Howrah	14 0	14 12	15 8	...	...	...	13 0	13 0	8 14	17 8	17 8	13 0	...	...	...
Central Districts.																
	Calcutta	12 0	14 10	14 4	19 12	21 0	19 15	9 6	9 6	6 4	16 14	17 0	...	17 0	13 6	13 0
6	24-Pergunnahs	18 0	16 0	13 4	21 4	21 8	17 8	8 0	8 0	8 0	18 13	18 13	13 4	...	...	...
7	Nuddes	16 0	17 4	13 5	32 0	32 0	...	17 12	17 12	12 0	20 2	20 2	14 14	...	...	...
8	Khoolna	...	...	...	...	...	...	18 0	18 0	14 0	21 0	21 0	16 0	...	...	...
9	Jessore	16 0	16 0	12 4	...	...	...	14 0	14 0	13 4	21 0	21 0	17 0	...	...	...
10	Mooresbadabad	17 0	17 0	16 0	...	...	...	20 0	20 0	14 0	24 0	24 0	17 0	...	...	...
11	Dinagepore	11 12	13 4	14 12	23 0	22 8	17 0	17 0	22 12	16 0	...	26 4	21 0	...	...	...
12	Rajshahye	18 0	20 0	13 2	45 0	45 0	...	16 8	19 8	15 0	22 8	22 8	19 2	...	...	...
13	Rungpore	17 0	17 0	18 0	...	...	...	18 0	18 0	12 0	21 0	21 0	22 0	...	...	...
14	Bogra	17 4	18 12	15 0	...	...	...	16 8	15 12	15 0	26 4	25 8	24 0	...	...	...
15	Pubna	19 8	20 0	17 0	...	...	...	8 4	8 0	8 4	25 8	26 4	20 10	...	...	...
16	Darjeeling	10 0	10 0	10 0	9 0	10 0	9 0	5 0	5 0	5 0	14 0	15 0	13 0	...	...	...
17	Julpigoree	11 8	13 0	13 5	20 0	20 0	20 0	14 0	14 0	16 0	26 0	26 0	27 0	...	...	...
Eastern Districts.																
18	Dacca	16 0	16 0	15 0	26 0	26 0	26 0	17 0	16 0	8 6	19 0	17 0	16 0	...	...	...
19	Furreedpore	17 0	17 0	16 0	25 0	25 0	25 0	16 0	16 0	16 0	21 0	21 0	18 0	...	...	...
20	Rackergunge	...	...	...	...	...	...	16 0	16 0	13 0	18 0	18 0	16 0	...	...	...
21	Mymensingh	12 0	13 0	11 8	...	...	...	12 0	13 0	11 8	18 0	17 8	17 0	...	...	...

A In sub-divisions retail prices of salt per rupee were:—Culna 13½ seers, Raneeunge 13 seers.

B In Rampore Hat sub-division retail price of salt 13 seers per rupee.

C In Tumlook sub-division, retail price of salt 11 seers per rupee.

D In sub-divisions retail prices of salt per rupee were:—Serampore 12 seers and Jehanabad 13½ seers.

E In sub-divisions retail prices of salt per rupee were:—Barasat and Bussirhat 12 seers, Diamond Harbour (at Kulpihat) 12½ seers, Barrackpore 12½ seers and Dum-dum 11 seers.

F In sub-divisions retail prices of salt per rupee were:—Meherpore 12 seers, Chooadanga 13 seers and Ranaghat 12½ seers.

G In Satkhira and Bagirhat sub-divisions retail price of salt 11 seers per rupee.

SEERS OF 80 TOLABS.

BAJRA OR CUMBU. ( <i>Pennisetum typho- ideum.</i> )		MARJA OR RAGI. ( <i>Eleusine Corocana.</i> )	
Present return.		Present return.	
Next preceding return.		Next preceding return.	
Corresponding return of last year.		Corresponding return of last year.	

[illegible][illegible]

0.1	0.2	0.3	0.4	0.5	0.6
0.7	0.8	0.9	1.0	1.1	1.2
1.3	1.4	1.5	1.6	1.7	1.8
1.9	2.0	2.1	2.2	2.3	2.4
2.5	2.6	2.7	2.8	2.9	3.0
3.1	3.2	3.3	3.4	3.5	3.6
3.7	3.8	3.9	4.0	4.1	4.2
4.3	4.4	4.5	4.6	4.7	4.8
4.9	5.0	5.1	5.2	5.3	5.4
5.5	5.6	5.7	5.8	5.9	6.0
6.1	6.2	6.3	6.4	6.5	6.6
6.7	6.8	6.9	7.0	7.1	7.2
7.3	7.4	7.5	7.6	7.7	7.8
7.9	8.0	8.1	8.2	8.3	8.4
8.5	8.6	8.7	8.8	8.9	9.0
9.1	9.2	9.3	9.4	9.5	9.6
9.7	9.8	9.9	10.0	10.1	10.2
10.3	10.4	10.5	10.6	10.7	10.8
10.9	11.0	11.1	11.2	11.3	11.4
11.5	11.6	11.7	11.8	11.9	12.0
12.1	12.2	12.3	12.4	12.5	12.6
12.7	12.8	12.9	13.0	13.1	13.2
13.3	13.4	13.5	13.6	13.7	13.8
13.9	14.0	14.1	14.2	14.3	14.4
14.5	14.6	14.7	14.8	14.9	15.0
15.1	15.2	15.3	15.4	15.5	15.6
15.7	15.8	15.9	16.0	16.1	16.2
16.3	16.4	16.5	16.6	16.7	16.8
16.9	17.0	17.1	17.2	17.3	17.4
17.5	17.6	17.7	17.8	17.9	18.0
18.1	18.2	18.3	18.4	18.5	18.6
18.7	18.8	18.9	19.0	19.1	19.2
19.3	19.4	19.5	19.6	19.7	19.8
19.9	20.0	20.1	20.2	20.3	20.4
20.5	20.6	20.7	20.8	20.9	21.0
21.1	21.2	21.3	21.4	21.5	21.6
21.7	21.8	21.9	22.0	22.1	22.2
22.3	22.4	22.5	22.6	22.7	22.8
22.9	23.0	23.1	23.2	23.3	23.4
23.5	23.6	23.7	23.8	23.9	24.0
24.1	24.2	24.3	24.4	24.5	24.6
24.7	24.8	24.9	25.0	25.1	25.2
25.3	25.4	25.5	25.6	25.7	25.8
25.9	26.0	26.1	26.2	26.3	26.4
26.5	26.6	26.7	26.8	26.9	27.0
27.1	27.2	27.3	27.4	27.5	27.6
27.7	27.8	27.9	28.0	28.1	28.2
28.3	28.4	28.5	28.6	28.7	28.8
28.9	29.0	29.1	29.2	29.3	29.4
29.5	29.6	29.7	29.8	29.9	30.0
30.1	30.2	30.3	30.4	30.5	30.6
30.7	30.8	30.9	31.0	31.1	31.2
31.3	31.4	31.5	31.6	31.7	31.8
31.9	32.0	32.1	32.2	32.3	32.4
32.5	32.6	32.7	32.8	32.9	33.0
33.1	33.2	33.3	33.4	33.5	33.6
33.7	33.8	33.9	34.0	34.1	34.2
34.3	34.4	34.5	34.6	34.7	34.8
34.9	35.0	35.1	35.2	35.3	35.4
35.5	35.6	35.7	35.8	35.9	36.0
36.1	36.2	36.3	36.4	36.5	36.6
36.7	36.8	36.9	37.0	37.1	37.2
37.3	37.4	37.5			

KANGNI OR KAKUN, ITALIAN MILLET. ( <i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY, OR SUNAGA. ( <i>Cicer arietinum</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	25 0	21 0	18 0
...	...	...	19 4	19 8	17 8
...	...	...	21 0	21 0	16 0
...	...	...	18 0	18 0	17 0
...	...	...	19 0	19 0	16 0
...	...	...	20 0	20 0	17 8

17 12	17 12	16 0	19 4	19 8	18 0
...	...	...	22 8	22 8	17 8
...	...	...	22 14	26 10	20 0
...	...	...	16 0	16 0	16 0
...	...	...	22 8	22 8	16 0
...	...	...	29 0	29 0	21 4
...	...	...	21 4	22 8	13 0
...	...	...	27 0	28 2	18 7½
...	...	...	17 0	17 0	12 0
...	...	...	15 0	17 4	19 8
...	...	...	22 8	22 0	16 8
...	...	...	11 0	11 0	10 0
...	...	...	16 0	16 0	14 0

...	...	...	18 0	18 0	17 0
...	...	...	20 0	20 0	16 0
...	...	...	16 0	16 0	16 0
...	...	...	20 0	20 0	14 0



*Districts of Bengal during the Fortnight ending the 31st January 1887.*

															WHOLESALE PRICES PER MAUND OF 40 SEERS.									DISTRICTS.									
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.																					
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.																
S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Rs.	A.	P.																
BENGAL.																																	
Western Districts.																																	
...	...	...	26	8	27	0	23	0	120	0	120	0	120	0	13	0	13	4	13	8	3	1	0	2	15	9	2	15	0	Burdwan.			
40	0	39	0	22	0	21	0	20	0	22	0	290	0	280	0	240	0	12	8	12	8	12	12	3	3	0	3	2	0	3	0	0	Bankoora.
...	...	...	18	0	18	0	18	12	200	0	160	0	160	0	12	0	12	0	12	0	12	0	3	2	0	3	2	0	3	2	6	Beerbhoom.	
...	...	...	16	0	18	0	14	0	155	0	155	0	155	0	12	4	12	0	12	8	3	0	3	3	1	2	3	0	3	0	3	Midnapore.	
...	...	...	14	0	13	0	16	8	120	0	120	0	120	0	13	0	13	0	13	9	3	0	0	3	0	0	2	14	0	0	Hooghly.		
...	...	...	14	0	14	0	16	0	90	0	90	0	90	0	12	0	12	0	13	0	3	2	0	3	2	0	3	0	0	0	Howrah.		
Central Districts.																																	
23	0	24	10	19	15	17	4	20	0	19	14	79	0	79	0	90	0	13	0	13	0	13	4	3	0	0	3	0	0	2	11	0	Calcutta.
26	8	26	8	19	0	20	0	19	0	20	0	100	0	100	0	100	0	12	8	12	8	12	13	3	0	0	3	0	0	2	14	0	24-Pargunnahs.
...	...	...	20	0	21	5 1/2	...	...	...	...	...	11	10 1/2	11	10 1/2	11	10 1/2	3	0	0	3	2	0	3	0	0	3	0	0	0	0	Nuddea.	
...	...	...	...	...	...	...	...	...	160	0	160	0	200	0	10	8	10	8	12	0	3	12	0	3	12	0	3	4	0	3	4	0	Khoolna.
...	...	...	26	0	26	0	16	0	120	0	120	0	120	0	10	12	10	12	11	12	3	3	0	3	3	0	3	0	0	0	0	Jessore.	
40	0	40	0	...	...	21	0	21	0	20	0	160	0	160	0	120	0	12	0	12	0	12	0	3	5	0	3	5	0	3	4	0	Moorshedabad.
...	...	...	...	...	...	...	...	...	160	0	120	0	140	0	12	0	12	0	12	0	3	4	0	3	4	0	3	2	0	3	2	0	Dinapore.
...	...	...	16	0	17	0	...	...	240	0	240	0	240	0	12	0	12	0	12	12	3	2	0	3	0	0	3	0	0	0	0	0	Rajshahye.
...	...	...	11	0	11	0	14	0	120	0	120	0	120	0	12	0	12	0	11	0	3	2	0	3	2	0	3	0	0	0	0	0	Burgore.
...	...	...	...	...	...	...	...	...	90	0	90	0	90	0	10	8	10	8	12	0	3	5	4	3	5	4	3	4	0	3	4	0	Bogra.
...	...	...	24	0	21	0	21	0	200	0	200	0	200	0	12	0	12	0	12	6	3	5	5	3	5	0	3	1	0	3	1	0	Pubna.
23	0	24	0	20	0	8	0	8	0	8	0	120	0	120	0	120	0	9	0	9	0	8	0	4	4	0	4	4	0	4	4	0	Darjeeling.
...	...	...	...	...	...	...	...	...	128	0	128	0	128	0	11	0	11	0	12	0	3	6	0	3	6	0	3	2	0	3	2	0	Jalpigoren.
Eastern Districts.																																	
...	...	...	...	...	...	...	...	...	120	0	120	0	120	0	10	8	10	8	13	0	3	8	0	3	8	0	3	1	0	3	1	0	Dacca.
...	...	...	14	0	14	0	16	0	120	0	120	0	140	0	11	0	11	0	12	0	3	5	0	3	5	0	3	5	0	3	5	0	Farradpore.
...	...	...	13	0	13	0	...	...	120	0	120	0	120	0	11	8	11	8	12	8	3	6	0	3	6	0	3	2	0	3	2	0	Backergunge.
...	...	...	...	...	...	16	0	...	...	...	...	...	...	11	8	11	8	12	0	3	6	0	3	6	0	3	4	0	3	4	0	Symensingh.	

4 In sub-divisions retail prices of salt per rupee were :—Thenida and Narail 12 seers, Magnoon 10½ seers and Bongong 13 seers.  
In sub-divisions retail prices of salt per rupee were :—Lalbagh 12 seers, Jungipora 13 seers and Kandi 12½ seers.

H In sub-divisions retail prices of salt per rupee were :—Jhenida and Narail 12 seers, Mizoga 10½ seers and Bhagani 10 seers.

I In sub-divisions retail prices of salt per rupee were :—Lalbagh 12 seers, Jungipore 13 seers and Kandi 12½ seers.

J In sub-divisions retail prices of salt per rupee were :—Nowgong 10½ seers and Nattore 12 seers.

J In sub-divisions retail prices of salt per rupee were:—Nowgong 10½ seers and Nattore 12 seers.

L In Serjennage sub-division retail price of salt 12 seers per rupee.

**L** In Sereigunge sub-division retail price of salt 12 seers per rupee.

**L** In Seraijunge sub-division retail price of salt 12 seers per rupee.  
**M** In Ahpore sub-division (at Fallacotta) retail price of salt 10 seers per rupee.

M In Ashpore sub-division (at Fallacotta) retail price of salt 10 seers per rupee.  
N In sub-divisions retail prices of salt per rupee were:— Manickgunge 11 seers, Moonsheergunge 10½ seers and Naraingunge 11 seers 13 chittacks.

18 chittacks.

○ In sub-divisions retail prices of salt per rupee were:—Goalundo 12 seers and Madaripore 12½ seers.

P In sub-divisions retail prices of salt per rupee were:—Patuakhali 9 seers, Pirozepore 11 seers, and Bhola 10½ seers.

Q In sub-divisions retail prices of salt per rupee were:—Gadankhali 12 seers, Pirozpora 11 seers, and Bhola 10½ seers.

## PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts.—Concluded.																			
22	Chittagong ...	16 0	16 0	16 0	...	...	...	12 0	15 0	15 0	19 1	17 12	20 0	...	...	...			
23	Noakholly* ...	...	...	...	...	...	...	21 0	22 0	16 0	25 0	25 0	18 0	...	...	...			
24	Tipperah† ...	11 6	...	13 4	...	...	...	20 11	16 12	14 14	22 0	24 12	18 4	...	...	...			
25	Chittagong Hill Tracts.	...	...	...	...	...	...	12 4½	12 4½	11 0	13 14½	14 8½	12 10	...	...	...			
	Hill Tipperah	12 0	12 0	12 0	...	...	...	16 0	14 0	14 0	20 0	19 0	18 0	...	...	...			
BEHAR.																			
26	Patna ...	20 0	20 0	23 8	34 0	34 0	34 0	11 8	11 8	11 8	23 0	25 8	17 0	26 0	26 0	...			
27	Gya ...	16 0	16 8	18 8	32 0	35 0	24 0	12 0	12 0	9 0	21 0	23 8	17 8	...	...	...			
28	Shahabad ...	15 0	16 0	20 0	30 0	30 0	26 0	10 0	10 0	9 0	18 0	19 0	18 8	...	...	...			
29	Durbhanga ...	19 0	19 12	17 0	33 0	33 0	23 0	14 0	14 8	9 0	21 2	21 0	18 0	23 4	23 0	...			
30	Mounfarpore ...	19 0	20 0	18 0	30 0	32 0	24 0	12 0	12 0	12 0	21 0	23 0	16 0	30 0	...	18 0			
31	Saran ...	15 0	15 0	19 8	34 0	32 0	28 0	9 0	8 8	8 12	22 0	22 0	19 4	...	30 0	...			
32	Chumpanun ...	21 0	21 0	16 0	40 0	40 0	22 0	7 8	7 8	12 0	20 0	20 0	19 0	...	...	...			
33	Mongnyr ...	16 13	17 14	18 15	33 8	42 0	27 12	15 0	15 0	10 8	20 0	22 0	16 12	...	...	...			
34	Bhagulpore ...	16 6	16 6	17 11	35 5	37 14	40 6	18 4	18 15	16 6	21 7	22 11	18 15	...	...	...			
35	Purneah ...	...	18 0	16 0	...	...	...	...	21 0	19 0	...	22 0	21 0	...	...	...			
36	Maldah ...	14 0	15 0	15 0	...	...	...	16 0	16 0	10 0	24 0	29 0	22 0	...	...	...			
37	Sonthal Pergas.	14 0	13 8	16 0	...	...	...	20 0	23 0	13 0	28 0	31 0	22 8	...	...	...			
ORISSA.																			
38	Cuttack ...	11 13	11 13	17 1	...	...	...	11 13	13 2	10 8	21 0	21 0	18 6	...	...	...			
39	Pooree ...	13 2	13 2	15 12	...	...	...	17 1	13 2	13 2	22 10	23 10	18 6	...	...	...			
40	Balasore ...	16 0	16 0	14 0	13 0	13 0	11 0	13 0	13 0	13 0	24 0	24 0	20 0	...	...	...			
CHOTA NAGPORE.																			
South-Western Frontier Agency.																			
41	Hazareebagh ...	18 0	18 0	17 0	22 0	20 0	18 0	11 0	13 0	12 0	22 0	20 0	20 0	...	...	...			
42	Lohardugga ...	18 0	24 0	15 0	18 0	18 0	13 0	20 0	21 0	19 0	24 0	27 0	22 0	...	...	...			
43	Singbhoom ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
44	Manbhoom ...	16 0	16 0	17 0	...	32 0	...	18 0	18 0	17 0	28 0	29 0	24 0	...	...	...			

R In Fenny sub-division (at Panchgechia) retail price of salt 9 seers per rupee.

S In sub-divisions retail prices of salt per rupee were:—Brahmanberiah 12 seers and Chandpore 11½ seers.

T In Jehanabad sub-division retail price of salt 12 seers per rupee.

W In sub-divisions retail prices of salt per rupee were:—Buxar and Sasseram 12½ seers and Bhadoosh 11½ seers.

V In sub-divisions retail prices of salt per rupee were:—Madhubani 11 seers and Tajpore 12 seers.

W In sub-divisions retail prices of salt per rupee were:—Hajepore 12½ seers and Seetamurtha 11 seers.

X In sub-divisions retail prices of salt per rupee were:—Sewan 12½ seers and Gopalgunge 11½ seers.

Y In Jamui and B-gu Serai sub-divisions retail price of salt 11 seers per rupee.

SEERS OF 80 TOLAHS.

BAJRA OR CUMBU. ( <i>Pennisetum typho-</i> <i>ideum</i> .)			MARUA OR RAGI. ( <i>Eleusine Corocana</i> .)		
Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...

26 0	26 0	26 0	26 0	26 0	26 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	30 8	30 12	28 9
...	...	...	...	30 3	...
...	...	...	28 8	28 8	23 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

...	...	...	36 0	48 0	25 0
...	...	...	48 0	48 0	38 0
...	...	...	...	...	...
...	...	...	...	30	...



KANGNI OR KAKUN. ITALIAN MILLET. ( <i>Setaria italica</i> )			GRAM, UHANA, CHHOLA, KADALAY, OR SONAGA. ( <i>Cicer arietinum</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	16 0	16 0	14 0
...	...	...	16 0	16 0	15 8
...	...	...	17 0	18 8	14 10
...	...	...	...	...	...
...	...	...	12 0	12 0	12 0

20 0	20 0	...	32 0	32 0	22 0
18 0	20 4	...	27 0	27 0	20 0
...	...	...	25 0	28 0	3 0
...	...	...	27 4	27 8	20 0
...	...	12 0	28 0	30 0	19 0
15 0	15 8	17 0	24 0	24 0	21 8
...	...	...	31 8	31 8	18 0
24 0	21 0	...	27 12	28 4	20 0
...	...	...	26 8	27 12	21 7
...	...	...	...	22 0	20 0
...	...	...	27 0	30 0	18 0
...	...	...	21 0	20 0	19 0

...	...	...	(kalai) 17 1	15 12	19 11
...	...	...	(kalai) 15 12	15 12	13 2
...	...	...	16 0	15 0	15 0

...	...	...	24 0	22 0	17 12
...	...	...	19 0	19 0	14 0
...	...	...	...	...	...
...	...	...	18 0	18 0	17 0

## Districts of Bengal during the Fortnight ending the 31st January 1887—(Concluded.)

															WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
...	...	...	10 0	10 0	9 0	75 0	75 0	120 0	12 0	12 0	12 0	3 2 0	3 2 0	3 4 0	Chittagong.			
...	...	...	...	...	...	...	...	...	R 11 0	11 0	10 0	3 8 0	3 8 0	3 8 0	Noakholly.			
...	...	...	10 8	14 8	8 0	...	...	...	S 11 8	11 0	12 8	3 7 0	3 7 0	3 3 0	Tipperah.			
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.			
...	...	...	16 0	16 0	16 0	...	...	...	11 0	11 0	11 0	3 4 0	3 4 0	3 4 0	Hill Tipperah.			
Eastern Districts.—Concluded.																		
32 0	33 0	21 8	34 0	34 0	27 0	110 0	110 0	120 0	11 8	11 8	11 8	3 1 6	3 1 6	3 1 6	Patna.			
...	...	...	21 0	21 0	23 0	120 0	120 0	180 0	T 11 0	11 0	11 0	3 5 0	3 5 0	3 5 0	Gya.			
...	...	24 0	14 0	16 0	16 0	160 0	140 0	140 0	U 13 0	12 0	12 8	3 5 0	3 5 0	3 2 0	Shahabad.			
30 0	36 0	24 0	20 0	9 8	20 0	176 0	176 0	160 0	V 13 0	13 0	11 8	3 0 0	3 0 0	3 4 0	Durbhanga.			
30 0	32 0	27 0	21 0	30 0	22 0	140 0	140 0	110 0	W 12 0	12 0	12 0	3 5 0	3 5 0	3 4 0	Mozufferpore.			
30 0	32 0	26 8	24 0	25 0	25 0	160 0	160 0	160 0	X 12 0	12 0	11 8	3 2 6	3 2 6	3 3 0	Saran.			
31 8	31 8	30 0	24 8	24 8	...	...	...	...	12 0	12 0	12 0	...	...	3 4 0	Chumpana.			
31 8	40 0	23 2	21 0	21 0	...	126 0	126 0	126 0	Y 12 9	12 1	13 2	3 2 0	3 4 0	2 14 6	Monghyr.			
32 13	37 14	21 7	20 3	20 3	21 7	176 8	176 12	151 8	Z 12 10	12 10	13 10	3 1 0	3 1 8	3 3 0	Bhagulpore.			
...	...	...	...	21 0	...	...	128 0	61 0	Z1 10 8	10 8	...	...	3 10 0	3 10 0	Purneah.			
...	...	...	...	...	...	160 0	160 0	160 0	12 0	12 0	12 0	3 4 0	3 4 0	3 4 0	Maldah.			
45 0	55 0	28 0	22 0	27 0	28 0	200 0	200 0	200 0	Z2 12 0	12 0	13 0	3 4 0	3 3 0	3 0 9	Sonthal Pergna.			
ORISSA																		
...	...	...	...	...	...	80 0	80 0	80 0	14 0	14 0	14 0	2 12 0	2 12 0	2 12 0	Cuttack.			
...	...	...	18 6	17 1	15 13	70 0	70 0	80 0	14 7	14 7	14 7	2 10 0	2 10 0	2 10 0	Poorce.			
...	...	...	13 0	13 0	13 0	160 0	160 0	120 0	Z3 10 8	10 8	...	3 10 0	3 8 0	3 8 0	Balasore.			
CHOTA NAGPORE. South-Western Frontier Agency.																		
28 0	20 0	20 0	20 0	19 0	18 0	280 0	240 0	240 0	Z4 10 0	9 0	10 0	3 12 0	3 12 0	3 8 0	Hazareebagh.			
26 0	30 0	20 0	20 0	20 0	18 0	120 0	120 0	120 0	10 0	10 0	10 8	3 12 0	3 12 0	3 8 0	Loharabugga.			
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Singbhoom.			
...	40 0	...	21 0	...	23 0	240 0	240 0	240 0	Z5 10 10	10 10	10 10	3 8 0	3 8 0	3 6 0	Manbhoom.			

- Z In Banks, Maddapore and Soopole sub-divisions retail prices of salt 11 seers per rupee.  
 Z1 In sub-divisions retail prices of salt per rupee were:—Kissengunge 10 seers, and Ariareah (at Ranigunge) 13 seers.  
 Z2 In sub-divisions retail prices of salt per rupee were:—Goddah and Rajmehal 11 seers, Pakour 12½ seers and Jamtara 13 seers.  
 Z3 In Buaruck retail price of salt 10 seers per rupee.  
 Z4 In Giridi sub-division (at Kharagdiha) retail price of salt 12 seers per rupee.  
 Z5 In Govindpore sub-division retail price of salt 12 seers per rupee.

Published for general information.

P. NOLAN,  
 Offg. Secy. to the Govt. of Bengal.

*PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the*

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. .
1	Calcutta ...	2 15 9	2 11 9	2 10 0	1 4 0	1 5 0	2 0 0	3 8 0	3 8 0	0 6 0	1 15 9	1 15 0	...
2	Seragunge ...	...	...	...	...	...	...	3 14 0	3 14 0	4 4 0	2 0 0	2 2 0	2 2 0
3	Dacca ...	2 5 0	2 5 0	2 8 0	1 8 0	1 8 0	1 8 0	2 5 0	2 7 0	4 10 0	2 0 0	2 3 0	2 8 0
4	Naraingunge ...	...	...	...	...	...	...	2 7 0	2 6 0	2 8 0	1 13 0	2 0 0	2 4 0
5	Chittagong ...	2 6 0	2 6 0	2 6 0	...	...	...	2 12 0	2 10 0	2 8 0	2 0 0	2 2 0	1 14 0
6	Patna ...	1 13 0	1 13 0	1 9 0	1 2 6	1 2 6	1 2 0	3 0 0	3 0 0	3 0 0	1 11 6	1 8 0	2 2 0
7	Balasore ...	2 4 0	2 4 0	2 12 0	3 0 0	3 0 0	3 2 0	3 0 0	3 0 0	3 0 0	1 0	1 8 0	1 14 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 8 0	1 8 0	2 1 0
	Cuttack ...	3 4 0	3 4 0	2 2 0	...	...	...	3 4 0	3 0 0	3 10 0	1 11 0	1 11 0	2 0 0

Calcutta,  
The 8th February 1887.



OF 40 SEERS.

MAVVA OR RAGI.  
*Eleusine Corocana.*

KANONI OR KANUN  
ITALIAN MILLET.  
*(Setaria italica.)*

Present return	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...	2 6 0	2 6 0	2 4 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
1 6 0	1 6 0	1 6 0	1 14 0	1 14 0	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

PRICES PER MAUND

JOWAR OR GHOLU. ( <i>Sorghum Vulgare</i> .)			RAJRA OR CUMBU ( <i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
2 0 0	2 10 0	3 0 0	2 4 0	2 5 6	2 8 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
6 0 1	6 0 0	...	1 6 0	1 6 0	6 0 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

*undermentioned Marts of Bengal during the Fortnight ending 31st January 1887.*

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer Arietinum.)			INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR LADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 12 0	1 11 3	2 2 0	1 8 0	1 4 0	2 0 0	2 1 0	1 15 0	2 0 0	0 7 0	0 7 0	0 6 3	3 0 0	3 0 0	2 11 0	Calcutta.
1 12 6	1 14 6	2 8 0	...	...	...	...	...	...	...	...	...	3 1 4	3 5 6	2 8 0	Serajgunge.
2 2 6	2 2 0	2 6 0	...	...	...	...	...	...	0 5 0	0 5 0	0 5 0	3 8 0	3 8 0	3 1 0	Dacca.
1 14 0	2 0 0	2 4 0	...	...	...	...	...	...	0 6 0	0 6 0	0 8 0	3 2 0	3 2 0	2 13 9	Naraingunge.
2 6 0	2 6 0	2 12 0	...	...	...	3 12 0	3 12 0	4 0 0	0 8 0	0 8 0	0 5 0	3 2 0	3 2 0	3 4 0	Chittagong.
1 3 6	1 3 6	1 8 0	1 3 6	1 3 0	1 9 0	1 2 6	1 2 6	1 6 0	0 5 3	0 5 3	0 4 6	3 1 6	3 1 6	3 1 6	Patna.
2 6 0	2 8 0	2 10 0	...	...	...	3 0 0	3 0 0	3 0 0	0 5 0	0 5 0	0 4 0	3 10 0	3 8 0	3 8 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	2 10 0	2 10 0	2 10 0	Pooree.
2 0 0	2 5 0	2 0 0	...	...	...	...	...	...	0 8 0	0 8 0	0 8 0	2 12 0	2 12 0	2 12 0	Cuttack.

Published for general information.

P. NOLAN,  
Offg. Secy. to the Govt. of Bengal.



## Meteorological Report of the Province of

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.															
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		Rainfall.	
			Highest, 10 A.M., barometer reading of month.	Lowest, 10 A.M., barometer reading of month.	Mean, 10 A.M., for month.	Mean reduced to sea-level.	Variation from normal area.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 10 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 10 A.M.		Variation from normal mean, 10 A.M.
ORISSA.	Pooree	Gopalpore	30.074	29.838	29.974	30.024	—	82.2	54.0	79.4	66.0	72.7	—	63	—	0.9	—	0.20
		False Point	30.113	29.860	30.006	30.028	—0.86	83.9	51.0	79.0	69.9	69.5	+0.1	65	—14	1.4	—0.6	0.67
	Cuttack	Cuttack	30.045*	29.796*	29.939*	30.022*	—0.83	86.0†	51.9†	84.7†	59.8†	72.2†	—0.1	62*	—3	0.8*	—0.9	0.58*
	Balasore	Balasore	30.117	29.805	29.986	30.047	—	85.9	46.9	77.1	56.0	66.6	—	58	—	0.5	—	0.09
SOUTH-WEST BENGAL.	South-West Midnapore and South 24-Pergunnahs.	Saugor Island	30.109	29.869	30.007	30.034	—0.81	82.2	50.6	76.9	59.2	68.1	0	63	—7	1.3	—0.4	1.01
	Midnapore	Midnapore	29.997	29.714	29.887	30.043	—	86.3	47.1	79.3	55.3	67.8	—	53	—	1.4	—	0.98
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	30.127	29.857	30.013	30.035	—0.93	81.1	47.2	75.3	55.2	65.3	—1.0	63	—8	1.1	—0.2	1.49
	Burdwan	Burdwan	30.061	29.762	29.914	30.045	—0.84	83.8	46.1	76.5	53.7	65.1	—1.3	54	—10	1.7	0	0.80
	Bankoorah	Bankoora	29.821	29.674	29.713	—	—	83.1	47.3	75.7	54.8	65.3	—	61	—	1.1	—	0.56
	West Burdwan and Beerbhoom.	Ranigunj	29.819	29.513	29.701	—	—	83.5	46.2	75.5	54.3	64.9	—	59	—	1.4	—	1.11
	Moorshedabad	Barhampore	30.090	29.802	29.966	30.036	—0.72	81.6	46.1	73.1	53.5	63.3	—2.1	71	+2	2.0	—0.2	1.83
	Nuddea	Krishnagar	30.106	29.821	29.986	—	—	82.8	42.7	75.5	50.7	61.1	—	60	—	1.8	—	0.57
	Jessore and Khoolna	Jessore	30.125	29.857	30.004	30.039	—0.65	82.7	44.4	75.6	52.7	64.2	—1.3	66	—2	1.8	+0.2	1.68
	Chittagong	Chittagong	30.040	29.796	29.933	30.026	—0.64	82.6	47.8	76.2	54.9	65.6	—0.9	69	—3	2.1	+0.8	2.28
EAST BENGAL.	Chittagong Hill Tracts	Demagri	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Backergunj	Barrisal	30.117	29.870	30.004	30.017	—	79.8	46.6	73.9	54.5	64.2	—	66	—	1.6	—	2.05
	Noakholly	Noakholly	30.074	29.807	29.978	30.023	—	80.5	44.1	74.6	51.3	63.0	—	57	—	1.4	—	2.40
	Furreedpore	Furreedpore (a)	30.116	29.858	29.991	—	—	75.5	44.8	70.2	51.9	61.1	—	62	—	1.0	—	1.14
	Dacca	Dacca	30.127	29.871	30.010	30.033	—0.55	80.6	47.5	75.1	54.0	61.5	—1.8	66	—3	1.9	+0.3	0.97
	Tipperah	Comillah	30.101	29.848	29.987	30.024	—	81.4	46.1	76.2	51.3	63.7	—	71	—	2.2	—	1.55
	Mymensingh	Mymensingh	30.098	29.846	29.989	—	—	71.4	41.1	66.4	49.6	58.0	—	73	—	3.1	—	0.82
	Bogra	Bogra	30.061	29.796	29.946	30.012	—	78.7	44.0	71.9	50.8	61.4	—	67	—	2.7	—	1.18
	Pubna	Serajgunj	30.105	29.824	29.976	30.025	—	78.9	43.1	72.4	50.1	61.3	—	74	—	2.5	—	1.36
	Rajshahye	Rampore Beaulah.	30.043	29.813	29.936†	30.011†	—	78.2	44.7	72.6	49.7	61.2	—	64	—	1.4	—	1.36
NORTH BENGAL.	Maldah	Maldah	?	?	?	?	—	76.4	43.1	73.5	50.6	62.1	—	64	—	1.5	—	1.33
	Dinapore	Dinapore	30.027	29.758	29.887	30.014	—	75.6	42.4	71.5	49.2	60.4	—	67	—	2.3	—	1.35
	Rungpore	Rungpore	30.044	29.755	29.918	30.050	—	75.6	44.0	70.5	49.7	60.1	—	76	—	0.6	—	2.21
	Julpigoree and Cooch Behar.	Julpigoree	29.867	29.586	29.727†	30.030†	—	73.9	42.0	70.0	60.7	60.4	—	77	—	4.0	—	1.41
	Darjeeling Hill Tracts.	Darjeeling	23.072	22.747	22.915†	—	—1.26†	48.2	21.9	39.8	31.3	35.6	—5.1	90†	+11	8.1	+2.7	1.82†
	Purneah and North Bhagulpore.	Purneah	30.056	29.748	29.911	30.045	—0.87	73.3	41.9	69.5	49.0	59.3	—2.6	76	+9	3.0	+1.8	2.57
	Mozufferpore	Mozufferpore	—	—	—	—	—	Observations suspended.										—
	Durbhunga	Durbhunga	30.013	29.693	29.886	30.043	—0.78	73.9	40.3	69.6	52.5	61.1	—1.0	77	+7	2.5	+1.1	1.74
	Chumparun	Motihari	29.922	29.625	29.785†	30.025†	—	74.8	39.7	69.2	47.9	53.6	—	70	—	4.3	—	1.20
	Sarun	Chupra	29.955	29.646	29.823	—	—	76.5	44.6	70.0	50.6	60.3	—	68	—	2.3	—	2.18
SOUTH BENGAL.	Shahabad	Denree	29.727	29.529	29.671	30.045	—	80.3	45.0	71.0	53.0	62.0	—	65	—	1.8	—	1.56
		Buxar	29.915	29.590	29.781	30.037	—	78.9	42.4	70.7	51.0	60.9	—	63	—	2.7	—	1.58
		Arrah	29.978	29.623	29.814	30.022	—	77.3	42.0	70.5	50.3	60.4	—	71	—	2.6	—	1.29
	Gya	Gya	29.775	29.567	29.649	30.046	—0.87	80.7	44.9	72.7	58.1	62.9	—0.6	53	—1	3.4	+1.6	1.21
	Patna	Bankipore	29.995	29.672	29.862	30.046	—0.87	78.3	43.3	70.8	51.0	61.9	—0.2	69	+2	3.1	+1.7	1.45
	South Bhagulpore and Monghyr.	Bhagulpore	29.990†	29.677†	29.853†	30.023†	—	78.4	44.0	70.6	50.9	60.7	—	72	—	2.1	—	2.22
	Sonthal Pergunnahs	Naya Doomka.	29.624	29.325	29.596	—	—	81.6	43.7	72.9	51.1	62.0	—	74	—	1.0	—	1.33
	Hazaribagh	Hazaribagh	28.908	27.784	27.962†	30.038†	—0.70†	77.9	42.4	69.8	50.2	60.0	—1.8	57	+7	2.3	+0.1	2.19
	Loharongga and Manbhoom.	Ranchee	27.929	27.655	27.825	30.019	—	79.1	42.4	70.7	49.7	60.2	—	63	—	2.5	—	2.18
	Singbhoom	Chaibassa	29.336	29.049	29.224	—	—	83.9	43.3	79.9	53.8	66.4	—	58	—	1.8	—	0.33

\* Mean for 30 days.

† Mean for 29 days.

‡ Mean for 28 days.

Bengal for the month of Januray 1887.

DISTRICT OBSERVATIONS.											Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 15th May 1886.								
Mean of dis- trict.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean num- ber of rainy days.	Mean of dis- trict.	Normal mean.	Variation.	Mean num- ber of rainy days.	Normal mean num- ber of rainy days.				
0.26	0.25	+0.01	1.3	1.0	61.44	55.89	+5.55	103.7	83.1	Gopulpore ...	Pooree ...	ORISSA.	
0.43	0.28	+0.15	1.4	0.7	64.06	51.69	+12.37	105.6	78.2	Cuttack ...	Cuttack ...		
0.40	0.38	+0.02	1.3	0.8	57.84	53.82	+4.02	70.9	77.9	Balasore ...	Balasore ...		
0.74	0.38	+0.36	2.7	0.8	52.19	63.23	-11.04	90.0	85.7	Saugor Island ...	South-West Midnapore and South 24-Pergun- nahs.		
0.75	0.45	+0.30	2.7	1.0	46.58	51.98	-5.40	92.1	71.4	Midnapore ...	Midnapore ...	SOUTH-WEST BENGAL.	
1.04	0.42	+0.62	3.3	1.0	57.23	51.98	+5.25	90.1	91.2	Calcutta ...	24-Pergunnahs, Howrah and Hooghly.		
1.01	0.30	+0.71	3.0	0.9	53.07	46.36	+6.71	83.0	75.9	Burdwan ...	Burdwan ...		
0.74	0.24	+0.50	3.5	0.8	53.10	52.19	+0.91	94.7	81.7	Bankoora ...	Bankoora ...		
1.59	0.38	+1.21	4.0	1.2	66.07	51.76	+14.31	90.6	83.2	Ranigunj ...	West Burdwan and Beerbhoom.	SOUTH-WEST BENGAL.	
1.78	0.35	+1.43	4.5	0.9	60.48	49.98	+11.50	97.9	77.8	Berhampore ...	Moorsheadabad ...		
0.75	0.31	+0.44	3.0	0.9	55.22	49.14	+6.08	83.0	78.4	Krishnagar ...	Nuddea ...		
1.03	0.43	+0.60	3.5	1.1	50.38	53.58	-3.20	83.1	85.5	Jessore ...	Jessore and Khoolna ...		
2.30	0.41	+1.89	4.0	1.1	129.20	113.74	+15.46	112.0	108.0	Chittagong ...	Chittagong ...	EAST BENGAL.	
2.46	0.35	+2.11	5.0	1.0	92.12	82.41	+9.71	123.0	114.3	Demagiri ...	Chittagong Hill Tracts		
2.81	0.46	+2.35	4.0	1.1	77.72	78.00	-0.28	110.6	106.5	Barrisal ...	Backergunj ...		
2.77	0.46	+2.31	5.5	1.2	117.82	108.84	+8.98	107.0	109.4	Noakhully ...	Noakhully ...		
1.02	0.40	+0.62	4.0	1.1	60.63	56.06	+4.57	85.0	88.0	Furzedpore ...	Furzedpore(a) ...	EAST BENGAL.	
0.84	0.31	+0.53	4.0	1.0	76.79	58.18	+18.61	90.2	90.7	Dacca ...	Dacca ...		
1.45	0.56	+0.89	5.3	1.2	77.38	71.00	+6.38	100.2	98.0	Commilla ...	Tipperah ...		
1.10	0.34	+0.76	3.8	0.9	67.69	67.47	+0.22	88.4	90.2	Mymensingh ...	Mymensingh ...		
1.25	0.32	+0.93	3.8	0.9	66.41	56.20	+10.21	81.1	78.1	Bogra ...	Bogra ...	NORTH BENGAL.	
1.44	0.35	+1.09	5.0	1.1	50.70	53.57	-2.87	103.0	79.5	Serajgunj ...	Pabna ...		
1.40	0.47	+0.93	3.0	0.9	59.75	53.85	+5.90	76.0	77.9	Rampore Beau- leah.	Rajshahye ...		
1.46	0.42	+1.04	4.0	1.3	63.73	53.56	+10.17	87.5	84.3	Maldah ...	Maldah ...		
1.77	0.25	+1.52	3.4	1.0	74.08	53.73	+20.35	90.4	79.2	Dinapore ...	Dinapore ...	NORTH BENGAL.	
1.91	0.38	+1.53	3.0	0.6	73.82	73.41	+0.41	81.4	76.3	Rungpore ...	Rungpore ...		
1.56	0.31	+1.25	3.0	0.9	109.71	110.61	-0.90	102.2	97.9	Jalpigoree ...	Jalpigoree and Cooch Behar.		
2.77	0.62	+2.15	7.3	1.8	141.37	117.07	+24.30	127.0	110.7	Darjeeling ...	Darjeeling Hill Tracts...		
2.22	0.38	+1.84	4.0	1.0	80.13	56.72	+23.41	90.2	68.6	Purneah ...	Purneah and North Bhagulpore.	NORTH BENGAL.	
7.0	0.60	+1.10	3.7	1.5	61.11	42.12	+18.99	73.0	56.9	Mozufferpore ...	Mozufferpore ...		
2.03	0.51	+1.52	4.0	1.3	63.13	43.10	+20.03	69.3	56.4	Durbhunga ...	Durbhunga ...		
1.14	0.66	+0.48	3.0	1.3	62.04	45.50	+16.54	71.0	52.7	Motihari ...	Chumparun ...		
1.73	0.56	+1.17	3.7	1.5	62.03	41.54	+20.49	69.9	56.8	Chupra ...	Saran ...	SOUTH BENGAL.	
1.43	0.60	+0.83	4.0	1.8	56.23	39.37	+16.86	71.0	61.3	Buxar ...	Shahabad ...		
1.58	0.56	+1.02	5.3	1.6	65.82	40.11	+25.71	78.7	56.1	Gya ...	Gya ...		
2.02	0.47	+1.55	5.0	1.6	61.16	40.34	+20.82	79.7	61.5	Bankipore ...	Patna ...		
2.47	0.43	+2.04	3.6	1.5	60.88	42.05	+18.83	78.4	66.1	Bhagulpore ...	South Bhagulpore and Monghyr.	SOUTH BENGAL.	
1.07	0.27	+1.40	3.5	0.8	71.40	48.91	+22.49	95.4	74.3	Naya Doomka...	Sonthal Pergunnahs ...		
2.06	0.27	+1.79	4.2	1.0	58.78	49.86	+8.92	92.6	81.1	Hazaribagh ...	Hazaribagh ...		
2.22	0.46	+1.76	5.5	1.4	50.33	47.28	+3.05	100.2	81.2	Ranchee ...	Lohardugga and Man- sukom.		
0.31	0.70	-0.39	2.0	1.7	43.81	53.05	-9.24	98.0	93.0	Chaibassa ...	Singbhoom ...		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA	Purora	Purora	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khurda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bampur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pada Point	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	Gop	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jagatsinghpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Balasore	Cuttack	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kendrapara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dharmasatta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH-WEST BENGAL.	Midnapore	Salipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandbali	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rhuddack	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sorn	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Pargannas	Balasore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jalasore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baripada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baripada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah	Contai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Saunor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tindak	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Modanore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH-WEST BENGAL.	Howrah	Chatal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Derog	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Heria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhogwanpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bardhaman	Garbela	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Diamond Har-	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



in Bengal in January 1887.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Highest rainfall during the month.	Total rainfall from 1st to 31st January 1887.	Average rainfall from 1st to 31st January 1887.	Station.	District.	Meteorological division.
0.28	0.07	...	...	...	...	...	...	...	...	...	1	0.8	0.28	0.23	0.28	0.28	0.23	Pooree	Pooree	1888A.
0.45	0.12	...	...	...	...	...	...	...	...	...	Nil	0.0	Nil	Nil	Nil	Nil	0.45	Pooree	Pooree	
0.06	...	...	...	...	...	...	...	...	...	...	3	1.1	0.06	0.44	0.46	0.06	0.44	Pooree	Pooree	
...	...	...	...	...	...	...	...	...	...	...	Nil	0.0	Nil	Nil	Nil	Nil	0.06	Pooree	Pooree	
0.30	0.58	...	...	...	...	...	...	...	...	...	2	0.7	0.70	0.19	0.40	0.70	0.19	Joratsingapore	Cuttack.	
0.50	0.35	...	...	...	...	...	...	...	...	...	2	0.5	0.51	0.39	0.39	0.51	0.39	Bauki,	Cuttack.	
0.07	0.30	...	...	...	...	...	...	...	...	...	1	0.7	0.35	0.39	0.39	0.35	0.39	Konkanara,	Cuttack.	
...	...	...	...	...	...	...	...	...	...	...	1	0.7	0.07	?	0.07	0.07	?	Japana,	Cuttack.	
0.70	0.40	...	...	...	...	...	...	...	...	...	1	0.7	0.70	0.37	0.70	0.70	0.37	Daryasalla,	Cuttack.	
0.08	...	...	...	...	...	...	...	...	...	...	2	0.7	0.40	0.31	0.40	0.40	0.31	Salipore,	Cuttack.	
0.20	...	...	...	...	...	...	...	...	...	...	Nil	0.0	Nil	Nil	Nil	Nil	0.20	Bauki,	Balasore.	
...	...	...	...	...	...	...	...	...	...	...	3	1.0	0.25	0.08	0.25	0.25	0.08	Randhuck,	Balasore.	
0.06	0.37	...	...	...	...	...	...	...	...	...	1	0.6	0.06	0.39	0.06	0.06	0.39	Sorah,	Balasore.	
0.28	0.37	...	...	...	...	...	...	...	...	...	4	0.8	1.01	0.32	0.37	1.01	0.32	Balasore,	Balasore.	
0.26	0.02	...	...	...	...	...	...	...	...	...	3	1.2	0.98	0.71	0.71	0.98	0.71	Chandali,	Balasore.	
0.12	...	...	...	...	...	...	...	...	...	...	4	1.0	0.84	0.47	0.31	0.84	0.47	Chandali,	Balasore.	
0.14	...	...	...	...	...	...	...	...	...	...	Nil	0.0	Nil	?	0.57	0.59	?	Chandali,	Balasore.	
0.46	...	...	...	...	...	...	...	...	...	...	1	?	0.14	?	0.14	0.14	?	Chandali,	Balasore.	
...	...	...	...	...	...	...	...	...	...	...	2	0.46	0.52	0.46	0.46	0.52	0.46	Chandali,	Balasore.	
0.42	...	...	...	...	...	...	...	...	...	...	3	1.1	1.14	0.58	0.51	1.14	0.58	Diamond Har-	21-Pergunnah.	
0.19	...	...	...	...	...	...	...	...	...	...	3	?	0.72	?	0.31	0.72	?	bour,	21-Pergunnah.	
0.45	...	...	...	...	...	...	...	...	...	...	2	1.1	1.41	0.93	1.28	1.41	0.93	Canning Town	21-Pergunnah.	
0.18	0.12	...	...	...	...	...	...	...	...	...	3	0.9	1.05	0.41	0.48	1.05	0.41	Abore Ind.	21-Pergunnah.	
0.30	0.11	...	...	...	...	...	...	...	...	...	4	1.0	1.31	0.49	0.83	1.31	0.49	Barrackpore,	21-Pergunnah.	
0.09	0.11	...	...	...	...	...	...	...	...	...	3	0.8	0.50	0.40	0.16	0.50	0.40	Dum-Dum,	21-Pergunnah.	
0.24	0.17	...	...	...	...	...	...	...	...	...	5	1.8	1.18	0.57	0.75	1.18	0.57	Barrackpore,	21-Pergunnah.	
0.07	0.20	...	...	...	...	...	...	...	...	...	3	0.4	1.07	0.42	0.80	1.07	0.42	Barrackpore,	21-Pergunnah.	
0.12	0.03	...</																		

Table of Rainfall recorded at Stations

[illegible]

Bengal in January 1887—continued.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st to 31st January 1887.	Average rainfall from 1st to 31st January 1887.	Station.	District.	Meteorological division.
0.00	1.20	...	...	...	...	0.22	...	...	...	...	4	?	2.12	?	1.20	2.12	?	Harishpore...	Noakholly - concol.	EAST BENGAL - concol.
0.45	0.34	...	...	...	...	...	...	...	0.05	...	4	?	1.07	?	0.81	1.07	?	Ramganj.	Farredpore.	
0.46	0.35	...	...	...	...	0.13	...	...	...	...	4	1.2	1.10	0.39	0.46	1.10	0.59	Madaripore		
0.15	0.03	...	...	...	...	0.45	...	...	0.35	...	5	1.1	1.07	0.33	0.45	1.07	0.31	Farredpore.		
0.50	...	...	...	...	...	0.15	...	...	...	...	3	1.1	0.99	0.40	0.50	0.90	0.40	Goalundo.		
0.19	0.06	...	...	...	...	0.19	...	...	0.13	...	5	1.2	0.81	0.53	0.21	0.81	0.53	Munshigunge.	Dacca.	
0.21	...	...	...	...	...	0.21	...	...	...	...	3	1.2	0.90	0.28	0.21	0.90	0.28	Dacca.		
0.35	...	...	...	...	...	0.22	...	...	0.11	...	3	0.3	1.05	0.21	0.37	1.03	0.21	Naraingunge.		
0.21	0.02	...	...	...	...	0.15	...	...	...	...	5	1.4	0.88	0.44	0.35	0.88	0.44	Mamickgunge		
0.12	0.07	...	...	...	...	0.12	0.06	...	0.07	...	8	?	1.61	?	0.65	1.61	?	Joydebpore.		
0.06	...	...	...	...	...	0.25	...	...	...	...	3	1.3	1.63	0.79	0.96	1.63	0.79	Agartola	Hill Tipperah.	
0.19	0.16	...	...	...	0.10	...	...	...	0.22	...	7	1.8	1.59	0.69	0.71	1.50	0.60	Comilla	Tipperah.	
0.30	0.20	...	...	...	...	...	...	...	0.10	...	4	0.6	1.39	0.34	0.70	1.30	0.38	Chandpore.		
0.12	0.09	...	...	...	0.11	0.25	...	...	...	...	7	1.2	1.36	0.77	0.31	1.36	0.77	Brahmanberia		
...	0.04	...	...	...	0.03	...	...	...	...	...	4	?	1.03	?	0.70	1.03	?	Ramchandra-pore.		
...	0.05	...	...	...	...	...	...	...	...	...	2	?	0.79	?	0.65	0.79	?	Nasirnagar.		
0.04	...	...	...	...	0.16	...	...	...	...	...	4	?	0.61	?	0.27	0.61	?	Daudkandi		
0.21	0.04	...	...	...	0.05	...	...	...	0.13	...	5	?	1.45	?	1.00	1.45	?	Kasba		
0.28	...	...	...	...	...	...	...	...	...	...	12	?	1.52	?	0.94	1.52	?	Laksham.		
0.20	...	...	...	...	0.17	...	...	...	...	...	5	1.4	1.37	0.30	0.53	1.37	0.59	Kishoregunge.	Mymensingh.	
0.86	...	...	...	...	0.18	...	...	...	...	...	4	1.1	1.56	0.42	0.85	1.56	0.42	Atia (Tangail).		
0.37	...	...	...	...	0.21	...	...	...	...	...	4	1.2	0.92	0.36	0.37	0.92	0.36	Mymensingh.		
0.37	...	...	...	...	...	...	...	...	...	...	12	0.9	1.18	0.46	0.81	1.18	0.46	Jamulpore.		
0.23	...	...	...	...	...	...	...	...	...	...	4	Nil	0.45	0.09	0.23	0.45	0.09	Netrokona.		
0.74	...	...	...	...	0.27	...	...	...	...	...	3	?	1.42	?	0.74	1.42	?	Shobornakhally		
0.40	0.07	...	...	...	0.06	...	...	...	...	...	7	?	1.72	?	0.63	1.72	?	Durgapore.		
0.29	...	...	...	...	...	...	...	...	...	...	12	?	0.69	?	0.40	0.69	?	Deuaganj.		
0.53																				



Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SOUTH BEHAR	Shahabad	Buxar	...	...	...	...	...	...	0.26	...	...	...	...	...	0.30	0.36	...	...	...	...	0.18	0.04
		Dehree	...	...	...	...	...	...	0.17	...	...	...	...	...	0.13	0.32	...	...	...	...	0.30	0.04
		Bhuboonah	...	...	...	...	...	...	0.20	...	...	...	...	...	0.30	...	...	...	...	...	0.30	0.04
		Sasseram	...	...	...	...	...	...	...	...	...	...	...	...	0.35	0.21	...	...	...	...	0.30	0.04
		Arrah	...	...	...	...	...	...	...	...	...	...	...	...	0.35	0.20	...	...	...	...	0.30	0.04
		Mohantah	...	...	...	...	...	...	...	...	...	...	...	...	0.30	0.10	...	...	...	...	0.10	0.12
	Gya	Aurungabad	...	...	...	...	...	...	0.31	...	...	...	...	...	0.31	0.60	...	...	...	...	...	0.31
		Gya	...	...	...	...	...	...	0.15	0.15	...	...	...	...	0.16	0.38	...	...	...	...	0.02	0.30
		Nowadah	...	...	...	...	...	...	0.08	...	...	...	...	...	0.23	0.32	...	...	...	...	0.07	1.04
		Jehanabad	...	...	...	...	...	...	0.04	...	...	...	...	...	0.34	0.21	...	...	...	...	0.27	0.74
		Arwal	...	...	...	...	...	...	0.30	...	...	...	...	...	0.14	0.11	...	...	...	...	0.25	0.81
		Daudnagar	...	...	...	...	...	...	0.08	...	...	...	...	...	0.30	...	...	...	...	...	...	0.51
		Sherrghati	...	...	...	...	...	...	...	...	...	...	...	...	...	0.30	...	...	...	...	1.30	1.30
		Rajauli	...	...	...	...	...	...	0.30	...	...	...	...	...	...	1.00	...	...	...	...	1.00	0.20
		Pakri Barawan.	...	...	...	...	...	0.10	...	...	...	...	...	...	0.20	0.60	...	...	...	...	...	1.11
	Patna	Patna	...	...	...	...	...	...	0.08	0.02	...	...	...	...	0.21	0.26	...	...	...	...	0.12	0.83
		Dinapore	...	...	...	...	...	...	0.41	...	...	...	...	...	0.25	0.28	...	...	...	...	0.16	0.83
		Behar	...	...	...	...	...	...	0.20	...	...	...	...	...	0.35	0.66	...	...	...	...	0.43	1.40
		Barrh	...	...	...	...	...	...	0.40	...	...	...	...	...	0.30	...	...	...	...	...	0.03	0.80
		Bickrun	...	...	...	...	...	...	...	...	...	...	...	...	0.20	0.10	...	...	...	...	0.50	0.20
	Monghyr	Hilsa	...	...	...	...	...	...	0.11	...	...	...	...	...	0.20	0.20	...	...	...	...	0.10	0.60
		Begoeserai	...	...	...	...	...	...	0.49	...	...	...	...	...	0.26	0.29	...	...	...	...	...	2.00
		Monghyr	...	...	...	...	...	...	0.22	...	...	...	...	...	0.10	0.41	...	...	...	...	0.04	2.10
		Jamui	...	...	...	...	...	...	0.09	...	...	...	...	...	0.33	...	...	...	...	...	1.30	1.30
	South Bhagulpore.	Gogri	...	...	...	...	...	...	0.15	...	...	...	...	...	...	0.40	...	...	...	...	0.14	2.60
		Sheikpura	...	...	...	...	...	...	...	...	...	...	...	...	...	0.80	...	...	...	...	...	...
		Rhagulpore	...	...	...	...	...	...	0.23	...	...	...	...	...	...	0.18	...	...	...	...	...	0.80
	Sonthal Pergunnahs.	Banka	...	...	...	...	...	0.15	...	...	...	...	...	...	0.14	...	...	...	...	...	1.80	1.80
		Kolgong	...	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...	...	1.60
		Rajmehal	...	...	...	...	...	...	0.09	...	...	...	...	...	...	0.20	...	...	...	...	...	1.00
		Godda	...	...	...	...	...	...	0.17	...	...	...	...	...	...	0.15	...	...	...	...	...	0.80
		Pakour	...	...	...	...	...	...	0.53	...	...	...	...	...	...	...	...	...	...	...	...	1.00
		Nya Doomka	...	...	...	...	...	...	0.63	0.01	...	...	...	...	...	...	...	...	...	...	...	0.70
		Deoghur	...	...	...	...	...	...	0.34	...	...	...	...	...	...	0.06	...	...	...	...	...	0.70
		Jamtara	...	...	...	...	...	...	0.62	0.05	...	...	...	...	...	...	...	...	...	...	...	0.90
CHUTIA NAG-Ptn.	Hazaribagh	Simra	...	...	...	...	...	...	0.08	...	...	...	...	...	...	0.18	...	...	...	...	...	0.70
		Nanihat	...	...	...	...	...	...	1.20	...	...	...	...	...	...	0.04	...	...	...	...	...	1.80
		Pachamba (Giridi).	...	...	...	...	...	...	0.27	0.20	...	...	...	...	...	0.03	...	...	...	...	...	1.80
		Hazaribagh	...	...	...	...	...	...	1.16	0.08	...	...	...	...	...	0.01	0.28	...	...	...	0.25	0.60
		Semtagurh	...	...	...	...	...	...	0.90	...	...	...	...	...	...	0.23	...	...	...	...	...	0.70
		Mahudi Hills	...	...	...	...	...	...	1.02	0.28	...	...	...	...	...	...	0.47	...	...	...	...	1.00
		Jhoomrah Hills	...	...	...	...	...	...	1.10	...	...	...	...	...	...	0.20	...	...	...	...	...	0.80
		Barhi	...	...	...	...	...	0.44	0.20	...	...	...	...	...	...	1.20	0.80	...	...	...	0.60	...
		Chatra	...	...	...	...	...	...	0.64	0.04	...	...	...	...	...	1.57	0.56	...	...	...	...	0.20
		Karagdeha	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga	Ramghar	...	...	...	...	...	...	0.50	0.12	...	...	...	...	...	0.32	0.10	...	...	...	...	1.70
		Lohardugga	...	...	...	...	...	...	0.38	0.10	...	...	...	...	0.03	0.06	0.57	0.10	...	...	...	1.10
		Ranchi	...	...	...	...	...	...	0.39	0.29	...	...	...	...	0.33	...	...	...	...	...	...	0.70
		Palmow	...	...	...	...	...	...	0.74	...	...	...	...	...	...	1.55	0.03	0.04	...	...	...	0.80
		Silli	...	...	...	...	...	...	...	0.07	...	...	...	...	...	...	...	...	...	...	...	0.30
	Singbhoom	Balumat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hoseinabad	...	...	...	...	...	...	0.30	...	...	...	...	...	...	0.45	0.44	...	...	...	...	0.90
		Garwah	...	...	...	...	...	...	...	...	...	...	...	...	2.10	0.50	0.81	...	...	...	0.60	0.10
		Chyebassa	...	...	...	...	...	...	0.22	0.13	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom	Chakradhar-pore.	...	...	...	...	...	...	0.41	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chulsila	...	...	...	...	...	...	0.25	...	...	...	...	...	...	...	0.03	...	...	...	...	0.30
		Baharagura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.20
		Purulia	...	...	...	...	...	...	0.32	0.37	...	...	...	...	...	...	...	...	...	...	...	0.10
		Gobindpore	...	...	...	...	...	...	0.39	0.04	...	...	...	...	...	0.02	...	...	...	...	...	0.80
		Raghunath-pore.	...	...	...	...	...	...	0.38	0.32	...	...	...	...	...	...	...	...	...	...	...	0.90
		Barrabhoom	...	...	...	...	...	...	0.20	0.15	...	...	...	...	...	...	0.03	...	...	...	...	0.30
		Jhalda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chas	...	...	...	...	...	...	...	...	...	...	...	...	...	0.48	...	...	...	...	...	...

in Bengal in January 1887—concluded.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st to 31st Jan. 1887.	Average rainfall from 1st to 31st Jan. 1887.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	4	2.0	1.78	0.77	0.94	1.78	0.77	Buxar	Shahabad	SOUTH BHAR.
...	...	...	...	...	...	...	...	...	...	...	4	?	1.56	?	0.55	1.56	?	Dehree.	...	
...	...	...	...	...	...	...	...	...	...	...	4	1.2	1.27	0.66	0.59	1.27	0.66	Bhubooh.	...	
...	...	...	...	...	...	...	...	...	...	...	4	1.7	1.16	0.47	0.40	1.16	0.47	Sasseram.	...	
...	...	...	...	...	...	...	...	...	...	...	4	2.1	1.50	0.83	0.65	1.50	0.83	Arrah.	...	Gya
...	...	...	...	...	...	...	...	...	...	...	4	?	0.63	?	0.30	0.63	?	Mohanish.	...	
0.01	...	...	...	...	...	...	...	...	...	...	4	1.6	1.59	0.69	0.60	1.59	0.69	Aurungabad	...	
...	...	...	...	...	...	...	...	...	...	...	7	1.9	1.36	0.70	0.39	1.36	0.70	Gya.	...	
...	...	...	...	...	...	...	...	...	...	...	5	1.2	1.75	0.65	1.05	1.75	0.65	Nowadah.	...	Patna.
...	...	...	...	...	...	...	...	...	...	...	5	1.6	1.63	0.68	0.78	1.63	0.68	Jehanabad.	...	
...	...	...	...	...	...	...	...	...	...	...	5	?	1.61	?	0.81	1.61	?	Arwal.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	0.95	?	0.57	0.95	?	Daudnagar.	...	
0.14	...	...	...	...	...	...	...	...	...	...	3	?	2.40	?	1.56	2.40	?	Sherrghati.	...	Monghyr.
...	...	...	...	...	...	...	...	...	...	...	4	?	2.50	?	1.00	2.50	?	Rajauli.	...	
...	...	...	...	...	...	...	...	...	...	...	4	?	2.01	?	1.11	2.01	?	Pakri Barawan.	...	
...	...	...	...	...	...	...	...	...	...	...	6	2.1	1.45	0.69	0.82	1.45	0.69	Patna	...	
...	...	...	...	...	...	...	...	...	...	...	5	1.2	2.05	0.57	0.55	2.05	0.57	Dumapora.	...	South Bhagulpore.
...	...	...	...	...	...	...	...	...	...	...	5	1.8	3.04	0.65	1.40	3.04	0.65	Behar.	...	
...	...	...	...	...	...	...	...	...	...	...	4	1.2	1.55	0.48	0.89	1.55	0.48	Barrh.	...	
...	...	...	...	...	...	...	...	...	...	...	4	?	1.09	?	0.50	1.09	?	Bickerun.	...	
...	...	...	...	...	...	...	...	...	...	...	5	?	1.35	?	0.65	1.35	?	Hilsa.	...	Sonthal Pergunnas.
...	...	...	...	...	...	...	...	...	...	...	4	1.2	3.09	0.54	2.05	3.09	0.54	Begoozerai	...	
...	...	...	...	...	...	...	...	...	...	...	4	1.7	2.87	0.45	2.12	2.87	0.45	Monghyr.	...	
...	...	...	...	...	...	...	...	...	...	...	4	1.3	2.39	0.70	1.33	2.39	0.70	Jamui.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	3.15	?	2.69	3.15	?	Gogri.	...	South Bhagulpore.
...	...	...	...	...	...	...	...	...	...	...	3	?	1.80	?	0.83	1.80	?	Sheikpura.	...	
0.20	...	...	...	...	...	...	...	...	...	...	3	1.7	2.23	0.50	1.82	2.23	0.50	Bhagulpore	...	
...	...	...	...	...	...	...	...	...	...	...	8	1.6	1.76	0.59	1.47	1.76	0.59	Banka.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	2.03	?	1.63	2.03	?	Kulgaon.	...	Sonthal Pergunnas.
...	...	...	...	...	...	...	...	...	...	...	3	0.5	1.12	0.19	0.83	1.12	0.19	Rajmehal	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.8	1.61	0.35	1.01	1.61	0.35	Godda.	...	
0.13	0.01	...	...	...	...	...	...	...	...	...	4	0.2	1.46	0.29	0.79	1.46	0.29	Pakour.	...	
0.31	...	...	...	...	...	...	...	...	...	...	4	1.4	1.93	0.55	0.98	1.93	0.55	Nya Doonka.	...	Sonthal Pergunnas.
...	...	...	...	...	...	...	...	...	...	...	3	1.3	1.28	0.43	0.88	1.28	0.43	Deoghur.	...	
0.06	...	...	...	...	...	...	...	...	...	...	4	0.5	2.57	0.43	0.96	2.57	0.43	Jamtara.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	2.06	?	1.89	2.06	?	Sinra.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	2.64	?	1.40	2.64	?	Nanihat.	...	CHUTIA NAGPUR.
...	...	...	...	...	...	...	...	...	...	...	4	1.3	1.05	0.38	0.59	1.05	0.38	Pachunha	...	
0.10	...	...	...	...	...	...	...	...	...	...	7	2.2	2.60	0.58	1.16	2.60	0.58	(Gardi).	...	
...	...	...	...	...	...	...	...	...	...	...	3	0.6	2.13	0.38	1.00	2.13	0.38	Hazaribagh.	...	
...	...	...	...	...	...	...	...	...	...	...	4	0.8	2.62	0.51	1.02	2.62	0.51	Semtagurah.	...	Lohardugga.
0.60	...	...	...	...	...	...	...	...	...	...	3	0.2	1.90	0.38	1.10	1.90	0.38	Mahudi Hills.	...	
...	...	...	...	...	...	...	...	...	...	...	6	?	3.49	?	1.20	3.49	?	Jhoomrah Hills.	...	
...	...	...	...	...	...	...	...	...	...	...	4	?	2.81	?	1.57	2.81	?	Barhi.	...	
...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	...	...	?	Chatra.	...	Singbhoom.
0.08	...	...	...	...	...	...	...	...	...	...	6	?	2.91	?	1.79	2.91	?	Karagdeha.	...	
...	...	...	...	...	...	...	...	...	...	...	6	?	2.91	?	1.79	2.91	?	Ramghar.	...	
0.31	...	...	...	...	...	...	...	...	...	...	8	?	2.70	?	1.15	2.70	?	Lohardugga	...	
0.35	0.10	...	...	...	...	...	...	...	...	...	6	1.5	2.29	0.78	0.70	2.29	0.78	Ranchy.	...	Manbhoom.
0.30	...	...	...	...	...	...	...	...	...	...	6	1.6	4.10	0.71	1.55	4.10	0.71	Palamow.	...	
...	0.04	...	...	...	...	...	...	...	...	...	3	?	0.41	?	0.30	0.41	?	Silli.	...	
...	...	...	...	...	...	...	...	...	...	...	4	?	Nil	?	Nil	Nil	?	Salumat.	...	
...	...	...	...	...	...	...	...	...	...	...	4	?	1.23	?	0.45	1.23	?	Hosainabad.	...	Singbhoom.
0.25	...	...	...	...	...	...	...	...	...	...	6	?	4.36	?	2.10	4.36	?	Garwah.	...	
...	...	...	...	...	...	...	...	...	...	...	2	1.7	0.31	0.08	0.18	0.31	0.08	Chyebassa	...	
0.19	...	...	...	...	...	...	...	...	...	...	4	?	0.85	?	0.41	0.85	?	Chakradhar-pore.	...	
...	...	...	...	...	...	...	...	...	...	...	3	?	1.79	?	1.02	1.79	?	Ghatita.	...	Manbhoom.
1.02	...	...	...	...	...	...	...	...	...	...	2	?	0.54	?	0.39	0.54	?	Baharagura.	...	
0.24	...	...	...	...	...	...	...	...	...	...	4	1.5	1.10	0.38	0.37	1.10	0.38	Purulia	...	
0.25	...	...	...	...	...	...	...	...	...	...	6	0.9	1.38	0.51	0.80	1.38	0.51	Gobindpore.	...	
0.12	0.01	...	...	...	...	...	...	...	...	...	4	?	1.36	?	0.63	1.36	?	Raghunath-pore.	...	Singbhoom.
0.03	...	...	...	...	...	...	...	...	...	...	4	?	?	?	?	?	?	Barrabhoom.	...	
...	...	...	...	...	...	...	...	...	...	...	1	?	0.90	?	0.50	0.90	?	Jhalda.	...	
0.50	...	...	...	...	...	...	...	...	...	...	2	?	2.02	?	1.54	2.02	?	Chas.	...	
1.54	...	...	...	...	...	...	...	...	...	...	2	?	2.02	?	1.54	2.02	?	Chas.	...	

# METEOROLOGICAL AND RAINFALL SUMMARY OF THE PROVINCE OF BENGAL FOR THE MONTH OF JANUARY 1887.

THE weather in northern India during the past month has been very unusual. In normal seasons fine, clear, dry weather prevails throughout the province with very occasional interruptions, when small depressions or cold-weather disturbances which have formed in Upper India pass eastwards and enter Behar or Chutia Nagpur. They modify the weather to a slight extent, causing clouded skies and giving light showers. They generally fill up in Behar, but sometimes pass eastwards through Bengal and then disappear. The amount of rain they give is rarely large in Bengal, and the average total rainfall of the month, which is mainly, if not entirely, due to them varies from three-tenths of an inch in Orissa to five-tenths of an inch in North Behar. Their importance lies in the fact that the winter snowfall on the Himalayas occurs chiefly during these storms or disturbances, and it is now apparently thoroughly established that an unusual accumulation of snow in the Himalayas (due to the occurrence of a larger number of these storms, and in a more intense form than usual) exercises a powerful influence on the weather for some months, tends to retard the advance of the south-west monsoon humid current over Northern India, and hence to diminish considerably the rainfall of the south-west monsoon season. The past month has been characterized by the occurrence of a very large number of these disturbances, which have followed each other in rapid succession. One especially of these storms was the largest and most severe of its kind that has been known for many years, certainly since 1877, and probably for the last 30 years. The following gives a list of these disturbances which, after forming in Upper India, entered into the Province of Bengal during the past month, and either filled up or passed through the province eastwards into Burmah:—

*First depression of January 7th, 8th, and 9th.*—It appears to have originated in the south of Rajpootana, and began to influence the weather on the 6th. It passed through the northern districts of Chutia Nagpur and South Behar on the 7th, and through Central into East Bengal on the 8th, and disappeared on the 9th. It gave a series of thunderstorms, and moderate general rain to Chutia Nagpur, Behar, and the greater part of Bengal on the 7th and 8th.

*Second depression of January 13th to 15th.*—This was a feebler and smaller disturbance than the previous. It formed in the Punjab on the 12th and began to modify the weather in Behar on the 13th. The depression passed into Behar and Chutia Nagpur on the 14th, and filled up on the morning of the 15th without passing into Bengal. It gave light to moderate rain to the whole of Behar and Chutia Nagpur. The rainfall was largest in the Hazaribagh and Lohardugga districts, and generally exceeded one inch in that area.

*Third depression of January 19th to 22nd.*—This was the most marked disturbance of the month, and one of the largest and most remarkable of its class that have occurred since the commencement of meteorological work in India. It originated in the Punjab on the evening of the 17th. The barometer fell rapidly until the depression exceeded five-tenths of an inch. It passed through the North-Western Provinces on the 20th, through Behar and West Bengal on the 21st, and through East Bengal on the 22nd, when it disappeared or passed into Burmah. The storm extended over the Himalayan region and gave heavy snowfall. The fall at Darjeeling was the largest experienced for many years. It also gave general and unusually heavy rain for the season to the whole of Behar, Chutia Nagpur, and Bengal. The average amount received during the storm in North Behar was 1·6 inches, in South Behar 1·2 inches, and in North Bengal 1·1 inches.

*Fourth depression of January 25th to 27th.*—This was much smaller than the previous disturbance. It originated in Upper India on the 24th and 25th, passed through Behar into West Bengal on the 26th, and through East Bengal on the 27th. The rainfall attending it was moderate in amount and distributed in an unusual manner, as it fell chiefly in East Bengal, and portions of South-West and North Bengal.

*Fifth depression of January 28th and 30th.*—This was of less importance than the previous. It formed in Upper India on the 27th, and passed rapidly eastwards through the province on the 29th and 30th, when it disappeared. It gave light showers, chiefly in East Bengal, on the 30th.

Each of these disturbances was accompanied by the same atmospheric changes. During their advance the barometer fell briskly (from  $\cdot 1''$  to  $\cdot 2''$ ). Temperature and humidity increased rapidly, skies became more or less clouded, the winds shifted, and showed slight convergence to the position of lowest pressure, and rain fell in varying amounts. After their passage through, or final disappearance in, the province, the barometer rose very quickly (much more rapidly than it fell), temperature and humidity decreased with great rapidity, and the winds resumed their ordinary cold-weather directions.

*Pressure.*—Was unusually variable during the month in consequence of the influence of the five cold-weather depressions. The third and largest caused a fall averaging  $\cdot 2''$  throughout the province, and in the others the fall varied between  $\cdot 1''$  and  $\cdot 15''$ . The mean pressure of the month is hence very considerably below the normal mean. The defect was greatest at Darjeeling, as might be expected, seeing that these disturbances undoubtedly originate in the higher strata of the atmosphere and influence the weather on the Himalayas more than in the plains of Northern India. It was very nearly an eighth of an inch at Darjeeling. The deficiency varied between  $\cdot 06''$  in East Bengal and  $\cdot 09''$  in Behar.

*Temperature.*—The month was characterized by unusually rapid and large variations. Temperature increased quickly during the passage of the disturbances, and diminished more briskly after their disappearance. The third and largest disturbance was



followed by an exceedingly rapid fall of temperature, which in this case was greater in the day than in the night temperature. Temperature was for a short period from  $10^{\circ}$  to  $15^{\circ}$  below the mean, and the average daily temperature for the week ending the 28th was from  $5^{\circ}$  to  $10^{\circ}$  below the normal average in Bengal, Behar, and Chutia Nagpur. The following table gives data for eight representative stations of the weekly variation of the temperature from the average:—

	WEEK ENDING 7TH JANUARY.			WEEK ENDING 14TH JANUARY.			WEEK ENDING 21ST JANUARY.			WEEK ENDING 28TH JANUARY.		
	Variation of actual mean maximum temperature of week from the normal.	Variation of actual mean minimum temperature of week from normal.	Variation of actual daily temperature of week from normal.	Variation of actual mean maximum temperature of week from the normal.	Variation of actual mean minimum temperature of week from normal.	Variation of actual daily temperature of week from normal.	Variation of actual mean maximum temperature of week from the normal.	Variation of actual mean minimum temperature of week from normal.	Variation of actual daily temperature of week from normal.	Variation of actual mean maximum temperature of week from the normal.	Variation of actual mean minimum temperature of week from normal.	Variation of actual daily temperature of week from normal.
Cuttack	+3.0	—	—	+1.9	+2.8	+2.4	0	—1.4	—0.7	—3.7	—3.5	—3.7
Calcutta	+2.1	+1.6	+1.9	—0.8	+0.7	0	—1.8	+0.1	—0.9	—2.0	—3.0	—5.0
Hardwan	+1.4	+0.2	+1.3	—0.2	+0.3	—0.1	—1.4	+0.2	—0.2	—2.2	—3.2	—5.2
Dacca	+0.3	—0.4	0	—1.1	+1.2	+0.1	—2.3	—1.6	—1.7	—2.6	—2.3	—4.9
Purneah	3.4	—0.2	—1.8	—5.0	+2.5	—1.3	—6.8	+2.1	—2.4	—8.9	—0.3	—4.6
Patna	+1.5	+3.2	+2.4	—0.8	+4.1	+1.5	—4.8	+1.5	—1.6	—5.3	+0.1	—2.6
Hazariabagh	+2.3	+3.2	+2.8	—3.6	+2.3	—0.7	—5.1	—1.6	—3.4	—8.0	+4.1	—6.1
Darjeeling	+2.5	—0.6	—1.6	—6.3	—3.7	—4.9	—4.7	—3.7	—4.3	—9.6	—9.4	—9.5

The mean temperature of the month is below the average for all divisions except Orissa. This was chiefly due to the effect of the cold period which followed the third depression. The mean temperature of the month for Chutia Nagpur and North Behar (and probably North Bengal) was  $2^{\circ}$  below the average, of East Bengal  $1\frac{1}{2}^{\circ}$ , of South-West Bengal  $1^{\circ}$ , and of South Behar  $\frac{1}{2}^{\circ}$ .

**Rainfall.**—The periods of occurrence of rainfall during the month have been already described. Rain fell during each of the five disturbances. By far the largest proportion fell during the third disturbance. Moderately heavy and general rain was received during the first storm. The rainfall which attended the remaining three storms was small in amount, and partial and local in character. Orissa received its normal average amount—one-third of an inch. The average rainfall in the other six divisions varied between one and two inches, and is from three to five and a half times its normal amount. Chutia Nagpur, East Bengal, and North Behar received the heaviest rainfalls and the largest amounts. The following districts received averages slightly exceeding  $2\frac{1}{2}$  inches:—Backergunge, Noakholly, Darjeeling, Purneah; between  $2\frac{1}{2}$  and 2 inches, Bhagulpore, Bankipore, Durbhunga, Hazariabagh, Lohardugga, Manbhoom and Chittagong; and the following between 2 and  $1\frac{1}{2}$  inches: Beerbhoom, Moorshedabad, Dinapore, Rungpore, Julpigoree, Muzafferpore, Sarun and Gya. The only districts in Bengal, Behar and Chutia Nagpur, where the district rainfall was less than one inch, were Dacca ( $\frac{1}{4}$  inch), Bankoora ( $\frac{1}{4}$  inch), Midnapore ( $\frac{1}{5}$  inch), and Singhbhoom ( $\frac{1}{3}$  inch). As already stated, the rainfall in Orissa was practically normal, varying between  $\frac{1}{4}$  inch and  $\frac{1}{3}$  inch. The heaviest rainfalls in 24 hours during the month were 3.05 inches at Patuakhally (in the Backergunge district) on the 27th, 2.6 inches at Gogri (in the Monghyr district) on the 20th, and 2.3 inches at Purneah on the same day.

The following table gives the summary of the temperature and rainfall data of each of the seven Meteorological Divisions of the Province for the month of January 1887:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1886.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.
Orissa	86.9	46.9	80.1	60.4	79.3	0	0.37	0.31	+0.06	1.3	0.8	+0.5	61.35	58.59
South-West Bengal	86.3	42.7	78.9	54.4	65.2	-1.1	1.08	0.37	+0.71	3.4	1.0	+2.4	55.95	51.01
East Bengal	82.6	41.1	73.2	52.5	68.0	-1.4	1.69	0.41	+1.28	4.3	1.1	+3.2	81.67	74.50
North Bengal	78.9	42.0	7.8	50.1	61.0	-	1.75	0.33	+1.42	3.5	0.9	+2.6	77.09	69.27
North Behar	78.5	39.7	69.6	60.0	59.8	-1.3	1.98	0.22	+1.46	3.8	1.3	+2.5	67.90	47.19
South Behar	81.6	42.4	71.3	51.5	61.5	-0.4	1.85	0.45	+1.40	4.2	1.4	+2.8	63.72	42.47
Chutia Nagpur	79.1*	42.4*	70.3*	49.9*	60.1*	-1.8*	1.95	0.39	+1.56	4.5	1.2	+3.3	63.93	49.04

\* Chayabasa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 7th February 1887.

JOHN ELIOT,

Meteorological Reporter to the Govt. of Bengal.

## Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 10 A. M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.
ORISSA.	Pooree	Gopalpore	29.906	29.956	—	NNW	130	81.2	31st. Jan., & 1. 2. Feb.	61.9	3rd. Feb.	79.9	65.3	72.6	—	78.2
		False Point	29.937	29.959	—133	NE	199	83.4	1st. "	52.5	3rd. "	78.6	58.9	63.8	—1.9	75.4
	Cuttack	Cuttack	29.880	29.903	—117	Southerly	27	86.4	30, 31. Jan., & 1st. Feb.	54.9	3rd. "	85.1	59.5	72.3	—1.7	74.6
	Balasore	Balasore	29.900	29.961	—	Northerly	53.6	83.9	30th. Jan.	48.3	3rd. "	79.6	54.1	66.9	—	72.8
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.952	29.979	—112	NNW	165	80.2	30th. "	50.6	2nd. "	77.3	56.3	66.8	—3.2	70.2
	South 24-Pergunnahs	Midnapore	29.818	29.973	—	N	64	85.3	30th. "	48.2	8rd. "	80.4	53.4	66.9	—	73.2
	24-Pergunnahs															
	Howrah	Calcutta	29.947	29.969	—124	N	93	79.1	1st. Feb.	48.7	3rd. "	75.1	52.9	64.0	—3.4	68.0
	Hooghly															
	Burdwan	Burdwan	29.866	29.971	—124	S	49	81.5	30th. Jan.	46.3	2nd. "	76.6	59.7	63.7	—3.8	65.7
	Bankoora	Bankoora	29.649	—	—	W	15	80.1	30th. "	47.8	2nd & 3rd. Feb.	75.8	51.5	63.7	—	68.5
	Beerbhoom															
	West Burdwan	Raneegunge	29.608	—	—	WSW	70.1	80.9	30th. "	47.7	2nd. "	76.8	51.7	64.3	—	67.2
	Moorshedabad	Berhampore	29.894	29.964	—125	WSW	65.3	77.6	30th. "	47.1	2nd. "	74.2	50.3	62.3	—4.7	65.1
	Nuddea	Krishnaghur	29.917	—	—	SSW	68.1	80.4	30th. "	42.9	2nd & 3rd. Feb.	76.3	46.9	61.6	—	63.8
	Jessore	Jessore	29.940	29.975	—101	NW	42.1	79.7	1st. Feb.	45.4	3rd. "	76.2	50.8	63.5	—4.0	68.5
EAST BENGAL.	Khoolna															
	Chittagong	Chittagong	29.881	29.975	—108	NNE	62	77.6	2nd. "	48.7	3rd. "	75.2	53.9	64.1	—4.0	67.6
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29.942	29.955	—	NNE	58.5*	77.3	1st. "	47.1	2nd. "	74.2	52.5	63.3	—	69.7
	Noakholly	Noakholly	29.838	29.933	—	NNW	36.4	77.6	31st. Jan.	45.0	2nd. "	74.0	48.7	61.3	—	69.2
	Furreedpore	Furreedpore	29.940	—	—	N	46.9	73.3	30th & 31st. Jan.	43.8	2nd. "	71.4	43.9	60.2	—	67.4
	Dacca	Dacca	29.943	29.966	—107	SSW	65	78.1	1st. Feb.	48.1	2nd. "	75.1	52.1	63.6	—4.5	68.9
	Tipperah	Commillah	29.926	29.963	—	SE	53.8	78.4	1st. "	45.1	2nd. "	75.6	50.4	63.0	—	68.1
	Mymensingh	Mymensingh	29.926	—	—	Calm	62	73.4	4th. "	41.1	4th. "	67.8	47.2	57.5	—	65.7
	Bogra	Bogra	29.869	29.935	—	Calm	47.2	76.3	1st. "	45.7	2nd. "	73.1	47.4	60.3	—	63.5
	Pubna	Serajunge	29.899	29.947	—	S	51.6	76.1	1st. "	43.8	1st. "	73.4	46.4	59.9	—	65.2
	Rajshahye	Rampore Beau- leah.	29.878	29.962	—	SW	81.7	76.2	1st. "	43.7	2nd. "	73.5	47.6	60.5	—	68.0
NORTH BENGAL.	Maldah	Maldah	—	—	—	NW	17.3	74.1	1st. "	43.5	3rd. "	73.2	45.7	60.0	—	66.4
	Dinagopore	Dinagopore	29.822	29.948	—	NW	44	73.1	30th. Jan.	44.8	2nd. Jan. & 4th. Feb.	72.0	47.3	59.6	—	63.7
	Rangpore	Rangpore	29.846	29.977	—	NE	52.1	72.7	30th. "	45.6	4th. "	71.5	48.4	59.9	—	63.1
	Julpigoree	Julpigoree	29.657	29.959	—	NE	73.1	71.9	4th. Feb.	45.9	2nd. "	70.5	50.0	60.3	—	61.5
	Cooch Behar															
	Darjeeling Hill Districts	Darjeeling	22.857	—	—	W	55.5	38.6	3rd. "	30.3	1st. "	36.9	31.1	34.0	—4.0	35.0
	Purneah	Purneah	29.839	29.973	—107	Calm	12.7	71.2	30th. 31st. Jan.	41.9	1st. "	69.6	43.8	57.7	—4.3	60.5
	North Bhagulpore															
	Mozufferpore	Mozufferpore						Observations suspended.								
	Durbhunga	Durbhunga	29.791	29.968	—101	WSW & NNE	75	72.9	31st. "	47.8	1st. "	70.3	50.2	60.2	—2.3	60.5
	Chumparun	Motihari	29.698	29.938	—	Southerly	100.3	72.6	31st. "	41.8	1st. "	70.9	44.7	57.4	—	60.8
	Sarun	Chupra	29.742	—	—	WSW	71.2	75.0	1st. Feb.	45.2	2nd. "	71.1	48.9	60.0	—	65.9
SOUTH BENGAL.	Shahabad	Dehree	29.692	29.974	—	SSW	104.5	76.3	30th. Jan.	47.0	3rd & 4th. Feb.	73.0	50.8	61.9	—	65.6
		Buxar	29.697	29.951	—	W	98.2	76.4	30. Jan., & 4th. Feb.	41.0	3rd. "	72.7	47.5	60.1	—	65.3
		Arrah	29.725	29.932	—	W	51.8	75.5	31st. Jan.	43.4	1st. "	72.0	47.9	60.0	—	63.3
	Gya	Gya	29.571	29.967	—137	Westerly	60.3	76.9	31st. "	47.2	3rd. "	74.1	52.1	63.1	—2.0	67.8
	Patna	Bankipore	29.764	29.957	—142	W	61.0	74.8	31st. "	43.9	2nd. "	71.7	47.7	59.7	—2.6	63.9
	South Bhagulpore															
	Monghyr	Bhagulpore	29.774	29.944	—	W	49	74.4	31st. "	40.0	1st to 3rd. Feb.	71.2	48.0	59.5	—	63.6
	Sonthal Pergunnahs	Doomka	29.429	—	—	Calm	5.7	76.8	30th. "	44.0	3rd. "	73.9	47.9	60.9	—	64.6
	Hazaribagh	Hazaribagh	27.887	29.955	—125	NNW	172.2	74.4	30th. "	42.7	2nd. "	70.5	48.2	59.4	—3.4	64.7
	Lohardugga															
	Manbhoom	Ranchee	27.755	29.939	—	NW	147.2	74.5	30th. "	43.8	2nd. "	71.3	48.1	59.7	—	65.0
	Singhbhoom	Chyabassa	29.161	—	—	S	26.3	82.7	31st. "	45.9	2nd & 3rd. Feb.	72.7	50.7	65.2	—	69.6

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the reading during the same period for the past ten years. The humidity of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number in the numerical means or average of the rainfall is that district determined from the returns sent in by the sub-divisional stations for the period in question during the past 12 years. The number in the brackets following in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

\* Mean for 6 days.

for the week ending Friday, the 4th February 1887.

DISTRICT OBSERVATIONS.															
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing stations.	RAINFALL.										Representative station.	DISTRICT.	
			Of week.		Since 1st of January.			Since 15th May 1886.			Average number of rainy days.	Normal number of rainy days.			
			Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
55	0.4	Nil	—	—	—	—	—	—	—	—	—	—	—	Gopalpore ...	Pooree ...
59	0.9	Nil	Nil	0.12	0.26	0.33	-0.07	51.44	55.97	+5.47	0.0	0.3	False Point ...	False Point ...	Cuttack ...
55	0	Nil	Nil	0.22	0.44	0.44	0	64.07	51.85	+12.22	0.0	0.4	Cuttack ...	Cuttack ...	Cuttack ...
45	0	Nil	Nil	0.37	0.40	0.62	-0.22	57.84	54.06	+3.78	0.0	0.6	Balasore ...	Balasore ...	Balasore ...
63	0.6	Nil	Nil	0.32	0.73	0.61	+0.12	52.18	63.46	-11.28	0.0	0.5	Saugor Island ...	South-West Midnapore ...	South-West Midnapore ...
38	0	Nil	Nil	0.29	0.75	0.63	+0.10	46.37	52.18	-5.61	0.0	0.6	Midnapore ...	Midnapore ...	Midnapore ...
49	0	Nil	Nil	0.21	1.04	0.59	+0.45	57.23	52.15	+5.08	0.0	0.6	Calcutta ...	24-Pergunnahs ...	24-Pergunnahs ...
50	0	Nil	Nil	0.25	1.01	0.54	+0.47	53.07	46.60	+6.47	0.0	0.5	Burdwan ...	Howrah ...	Howrah ...
47	0	Nil	Nil	0.07	0.75	0.23	+0.47	53.11	52.23	+0.88	0.0	0.3	Bankoora ...	Bankoora ...	Bankoora ...
40	0	Nil	Nil	0.24	1.59	0.57	+1.02	60.07	51.05	+14.72	0.0	0.6	Raneegunge ...	Beerbhoom ...	Beerbhoom ...
70	0.6	Nil	Nil	0.15	1.78	0.47	+1.31	60.47	49.10	+11.37	0.0	0.4	Berhampore ...	West Burdwan ...	West Burdwan ...
47	0.1	Nil	Nil	0.24	0.75	0.50	+0.25	55.22	49.33	+5.89	0.0	0.5	Krishnaghar ...	Moorshedabad ...	Moorshedabad ...
56	0.4	Nil	Nil	0.28	1.02	0.65	+0.37	59.37	53.80	+5.57	0.0	0.6	Jessore ...	Nuddea ...	Nuddea ...
63	1.1	Nil	Nil	0.09	2.31	0.54	+1.80	129.29	113.84	+15.46	0.0	0.3	Chittagong ...	Jessore ...	Jessore ...
55*	0	0.03	Nil	0.24	2.46	0.46	+2.00	92.42	81.52	+9.90	0.5	0.3	Demagiri ...	Khoolna ...	Khoolna ...
49	0.3	0.11	0.06	0.27	2.82	0.68	+2.14	77.74	78.22	-0.48	0.0	0.5	Barrisal ...	Chittagong Hill Tracts ...	Chittagong Hill Tracts ...
54	0	0.32	0.12	0.30	2.18	0.71	+2.07	117.33	109.09	+8.24	0.5	0.6	Noakholly ...	Backergunge ...	Backergunge ...
54	1.0	0.13	0.06	0.30	2.03	0.71	+2.07	117.33	109.09	+8.24	0.5	0.6	Noakholly ...	Noakholly ...	Noakholly ...
54	0.7	0.20	0.08	0.24	1.03	0.63	+0.40	60.63	56.29	+4.34	0.3	0.7	Furcedpore ...	Furcedpore ...	Furcedpore ...
65	1.1	Nil	Nil	0.19	1.84	0.57	+0.27	76.79	58.74	+18.05	0.5	0.7	Dacca ...	Dacca ...	Dacca ...
63	1.4	Nil	Nil	0.15	1.45	0.75	+0.70	77.38	71.19	+6.19	0.5	0.6	Commillah ...	Tipperah ...	Tipperah ...
65*	1.1	Nil	Nil	0.19	1.10	0.50	+0.60	67.69	67.63	+0.06	0.0	0.5	Mymensingh ...	Mymensingh ...	Mymensingh ...
63	1.4	Nil	Nil	0.15	1.26	0.46	+0.80	66.42	56.43	+9.99	0.0	0.3	Bogra ...	Bogra ...	Bogra ...
65*	1.1	Nil	Nil	0.19	1.44	0.49	+0.95	55.76	53.71	+2.05	0.0	0.6	Serajgunge ...	Pubna ...	Pubna ...
55	0.4	Nil	Nil	0.20	1.59	0.66	+0.84	59.76	54.04	+5.72	0.0	0.4	Rampore Beaulah ...	Rajshahye ...	Rajshahye ...
62	0	Nil	Nil	0.13	1.46	0.49	+0.97	62.73	53.63	+9.10	0.0	0.4	Maldah ...	Maldah ...	Maldah ...
62	1.1	Nil	Nil	0.05	1.77	0.26	+1.51	74.08	53.74	+20.34	0.0	0.2	Dinagore ...	Dinagore ...	Dinagore ...
74	0.1	Nil	Nil	0.12	1.92	0.43	+1.49	73.83	73.46	+0.37	0.0	0.3	Rangpore ...	Rangpore ...	Rangpore ...
78	4.1	Nil	0.04	0.09	1.65	0.53	+1.32	109.89	110.63	-0.83	0.4	0.3	Julpigoree ...	Julpigoree ...	Julpigoree ...
93	9.4	0.41	0.23	0.18	2.93	0.67	+2.26	141.53	117.12	+24.41	1.5	0.7	Darjeeling ...	Cooch Behar ...	Cooch Behar ...
69	1.4	Nil	Nil	0.12	2.60	0.45	+2.15	89.15	56.79	+32.36	0.0	0.4	Purneah ...	Darjeeling Hill District ...	Darjeeling Hill District ...
72	0.7	Nil	Nil	0.11	1.70	0.67	+1.03	61.11	42.19	+18.92	0.0	0.4	Mozufferpore ...	Purneah ...	Purneah ...
65	0	Nil	Nil	0.14	2.03	0.61	+1.42	63.13	43.29	+19.84	0.0	0.4	Darbhanga ...	North Bhagulpore ...	North Bhagulpore ...
56	0	Nil	Nil	0.06	1.75	0.69	+1.06	62.93	45.69	+17.24	0.0	0.5	Motihari ...	Mozufferpore ...	Mozufferpore ...
54	0	Nil	Nil	0.15	1.75	0.69	+1.06	62.93	41.68	+21.25	0.0	0.5	Chupra ...	Darbhanga ...	Darbhanga ...
48	0	Nil	Nil	0.15	1.43	0.71	+0.72	56.22	39.45	+16.77	0.0	0.6	Dehra ...	Champanan ...	Champanan ...
56	0	Nil	Nil	0.20	1.58	0.68	+0.90	65.81	40.23	+25.58	0.0	0.4	Gya ...	Saran ...	Saran ...
42	0	Nil	Nil	0.12	2.02	0.57	+1.45	60.99	40.44	+20.55	0.0	0.6	Bankipore ...	Dehra ...	Dehra ...
58	0.4	Nil	Nil	0.22	2.18	0.57	+1.61	60.99	42.15	+18.84	0.0	0.3	Bhagulpore ...	Shahabad ...	Shahabad ...
68	0	Nil	Nil	0.13	1.67	0.39	+1.28	71.40	49.03	+22.37	0.0	0.4	Doomka ...	Arrah ...	Arrah ...
34	0	Nil	Nil	0.09	2.02	0.32	+1.70	58.74	49.91	+8.83	0.0	0.2	Hazaribagh ...	Gya ...	Gya ...
52	0	Nil	Nil	0.28	2.12	0.66	+1.46	50.33	47.43	+2.90	0.0	0.3	Ranchee ...	Patna ...	Patna ...
39	0	Nil	Nil	0.34	0.31	0.89	-0.58	43.81	52.24	-8.43	0.0	0.6	Gayabasa ...	South Bhagulpore ...	South Bhagulpore ...

years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "District observations of rainfall, the normal mean years." The means of the district are the numerical averages of the rainfall return received in the district, i.e., from the total rainfall at the sub-divisional.





## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 4th of February 1887—contd.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of January 1887.	Average total rainfall from 1st of January	Total rainfall since 15th May 1886.	Average rainfall from 15th May to date.	
			Saturday, 29th January.	Sunday, 30th January.	Monday, 31st January.	Tuesday, 1st February.	Wednesday, 2nd February.	Thursday, 3rd February.	Friday, 4th February.	Number of rainy days.	of rainfall week.					
EAST BENGAL—contd.	Noakholly	Gournaddi Bauphal								NH	NH	1.58	?	64.87	?	
		Noakholly		0.12						1	0.12	2.54	0.58	111.15	108.71	
		Fenny								NH	NH	2.90	0.82	123.16	103.15	
		Hariskpore Ranganj		0.05						1	0.05	2.12	?	141.77	?	
	Furreedpore	Madaripore								NH	NH	1.10	0.72	63.00	53.25	
		Furreedpore		0.35						1	0.35	1.07	0.52	59.43	58.50	
		Gonindo								NH	NH	0.90	0.67	54.43	54.24	
	Dacca	Munshigunge		0.13						1	0.13	0.81	0.82	55.61	70.81	
		Dacca								NH	NH	0.60	0.30	64.07	58.78	
		Narainnunge		0.11						1	0.11	1.03	0.32	84.81	54.53	
		Manicknunge Joydebpore			0.07					1	0.07	0.88	0.55	58.85	50.00	
	Hill Tipperah	Agartola								NH	NH	1.63	0.82	64.06	62.54	
		Comilla		0.02						1	0.02	1.50	0.70	85.84	77.42	
		Chandpore		0.14						1	0.14	1.30	0.41	85.35	81.38	
		Raunamaberis Ramchandrapore.			0.15					1	0.15	1.36	0.93	89.64	63.19	
	Mymensingh	Nasirnagar..								NH	NH	0.70	?	84.23	?	
		Bandkandi								NH	NH	0.61	?	73.37	?	
		Kasba		0.13						1	0.13	1.45	?	63.26	?	
		Laksham								NH	NH	1.52	?	90.58	?	
	Mymensingh	Kishoregunge								NH	NH	1.37	0.70	74.63	70.34	
		Atia (Tangail)								NH	NH	1.55	0.59	84.79	54.04	
		Mymensingh								NH	NH	0.92	0.54	69.00	74.73	
		Jamulpore								NH	NH	1.18	0.61	61.40	60.27	
		Netrokona								NH	NH	0.46	NH	58.55	70.13	
		Subornakhilly								NH	NH	1.42	?	45.14	?	
		Turgapore								NH	NH	1.72	?	?	?	
		Devanganj								NH	NH	0.69	?	62.80	?	
		NORTH BENGAL	Pubna	Pubna							NH	NH	1.47	0.46	62.06	54.63
			Soragunge								NH	NH	1.41	0.49	62.44	62.31
	Bogra		Sherpore								NH	NH	1.51	0.30	65.75	59.13
			Nowshilla								NH	NH	1.21	0.41	62.14	51.74
Bogra										NH	NH	1.18	0.78	66.18	60.28	
Chanchibi									NH	NH	1.11	0.51	71.61	63.00		
Rajshahye	Beaulah									NH	NH	1.20	0.50	61.98	52.64	
	Antore									NH	NH	1.78	0.71	67.51	65.51	
	Nowgong									NH	NH	1.82	?	70.02	?	
	Lalpur									NH	NH	2.11	?	61.91	?	
Maldah	Handa								NH	NH	0.87	?	60.98	?		
	Maldah								NH	NH	1.12	0.10	72.32	50.53		
	Chanchal								NH	NH	1.40	0.57	63.12	68.80		
	Gopal								NH	NH	1.51	?	67.88	?		
Dinapore	Sibganj								NH	NH	2.37	?	65.02	?		
	Mohadebpore								NH	NH	1.91	0.13	78.34	58.23		
	Charamon								NH	NH	1.96	0.17	68.56	60.54		
	Raigunge								NH	NH	2.15	0.44	90.52	63.47		
Dinapore	Dinapore								NH	NH	1.41	0.50	72.77	62.48		
	Balcoorhat								NH	NH	1.43	0.11	62.12	47.48		
	Rangpore	Bhawanigunge (Gyabanda.)								NH	NH	1.63	0.35	65.20	61.71	
		Rangpore								NH	NH	2.54	0.54	71.79	74.03	
Kotigrah									NH	NH	1.31	0.51	80.02	73.35		
Rangpore									NH	NH	2.25	0.59	82.20	84.18		
Jalpigore	Aliphamari.								NH	NH	1.63	?	72.71	?		
	Ulipore								NH	NH	1.63	?	72.71	?		
	Jalpigore		0.04						1	0.04	1.96	0.47	197.57	115.63		
	Alipore								NH	NH	1.83	?	137.16	?		
Goach Behar	Fallacolla		0.22				0.20		2	0.42	1.65	?	99.34	?		
	Debigang								NH	NH	1.76	?	?	?		
	Debigang								NH	NH	1.40	0.34	82.30	95.74		
	Goach Behar					0.15			1	0.15	1.40	0.44	108.25	118.95		
Goach Behar	Mekligunge								NH	NH	1.43	0.10	115.67	105.00		
	Uainbhanga								NH	NH	1.40	0.21	114.45	117.11		
	Darjeeling Hill.	Bura		0.25	0.05		0.04			3	0.34	4.61	0.65	223.51	192.12	
		Siliguri					0.06			1	0.06	2.65	0.36	145.85	87.53	
Darjeeling			0.01	0.25	0.13	0.02			4	0.41	1.47	0.50	119.02	100.08		
Kampong			0.25	0.28			0.05		3	0.58	3.68	0.60	74.63	80.00		
NORTH BEHAR	Purneah	Kissengunge								NH	NH	3.19	0.54	167.92	67.12	
		Arrah								NH	NH	3.96	0.41	91.45	61.72	
		Purneah								NH	NH	2.37	0.43	85.27	59.74	
		Gondwara								NH	NH	2.55	?	?	?	
	North Bhagalpore.	Balarampore								NH	NH	1.81	?	?	?	
		Masari								NH	NH	1.98	?	79.82	?	
		Kabaganj								NH	NH	1.42	?	?	?	
		Madaspore								NH	NH	2.64	0.45	69.53	48.53	
	North Bhagalpore.	Sonool								NH	NH	1.96	0.41	68.59	46.91	
		Protaganj								NH	NH	0.45	?	72.13	?	
Burbhanga		Tajpore								NH	NH	2.61	0.62	74.17	41.39	
		Burbhanga								NH	NH	1.74	0.52	67.41	41.73	
	Madhubani								NH	NH	2.55	0.71	67.92	41.56		
	Bahera								NH	NH	1.53	?	68.16	?		
Mouzerpore	Koshera								NH	NH	1.74	?	70.00	?		
	Mouzerpore	Sitamarni								NH	NH	1.40	0.57	55.81	41.10	
		Mouzerpore								NH	NH	1.55	0.82	67.79	44.43	
		Haripore								NH	NH	2.15	0.62	69.73	41.25	
		Para								NH	NH	1.10	?	51.03	?	
	Mouzerpore	Manua								NH	NH	1.87	?	65.99	?	
		Singar								NH	NH	1.50	?	69.27	?	
		Supri								NH	NH	2.15	?	68.29	?	
		Motbari								NH	NH	1.20	0.74	63.94	43.16	
	Dumraon	Betish								NH	NH	1.67	0.76	70.12	47.91	
Bagani									NH	NH	1.35	?	62.03	?		
Dumraon									NH	NH	1.70	?	50.50	?		

## Statement of Rainfall in Bengal for the week ending Friday (6 p m.), the 4th of February 1887—concl.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of January 1887.	Average total rain-fall from 1st of January.	Total rain-fall since 15th May, 1886.	Average rainfall from 15th May to date.
			Sunday, 29th January.	Monday, 30th January.	Tuesday, 31st January.	Wednesday, 1st February.	Thursday, 2nd February.	Friday, 3rd February.	Saturday, 4th February.	Number of rainy days.	of Rainfall.				
NORTH BENGAL—continued.	SARAD	Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.80	0.43	59.95	42.09
		Sewan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.53	0.77	59.91	43.30
SOUTH BENGAL	Shahabad	Churrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.86	0.62	63.92	39.25
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.78	0.83	49.82	38.36
		Denree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.56	?	51.05	?
		Rhuteeah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.27	0.79	53.03	40.01
		Sasserain	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.16	0.55	53.67	40.31
		Arran	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.50	0.75	68.24	38.75
		Mohania	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.63	?	28.30	?
	Gya	Aurangabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.59	0.65	66.84	41.74
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.36	0.57	66.98	41.20
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.75	0.78	65.33	38.88
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.63	0.69	64.04	39.01
		Arwal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.61	?	54.18	?
		Daudnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.95	?	54.16	?
		Sherghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.40	?	61.25	?
	Patna	Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.30	?	?	?
		Pakri Barawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.01	?	68.62	?
		Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.45	0.64	65.03	40.90
	Bhagalpur	Dharpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.05	0.49	71.89	39.81
		Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.04	0.64	55.92	41.03
		Baran	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.55	0.50	61.23	39.51
		Bickram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	?	?	?
	Bhagalpur	Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.35	?	?	?
		Begooesri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.00	0.58	52.42	39.07
		Monohyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.87	0.43	63.87	45.31
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.39	0.71	59.88	43.54
CHUTTA NAGPUR.	South Bhagalpur.	Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.15	?	55.01	?
		Sheikhpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.80	?	63.16	?
		Bhagalpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.23	0.50	64.83	41.13
		Halka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.74	0.64	60.44	43.45
	Sonthal Pergunahs.	Koigong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.03	?	53.63	?
		Raimahal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	0.15	66.40	40.39
		Godda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.03	0.46	55.32	44.31
		Pakour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.46	0.12	85.02	50.23
	Hazaribagh	Nya Duonka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.91	0.63	71.97	53.07
		Deognur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.28	0.66	61.54	49.81
		Jamtara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.57	0.21	68.50	47.43
		Simra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.01	?	56.94	?
	Lohardugga	Nanhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.64	?	?	?
		Pachamba	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	0.49	60.99	47.15
		(Girdi).	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.60	0.55	58.65	47.65
		Hazaribagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.13	0.17	55.94	45.75
	Singbhoom	Semantagan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.62	0.31	58.56	40.72
		Munadi Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.99	0.08	61.80	63.57
		Jhoomrah Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.49	?	69.68	?
		Burra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.81	?	69.75	?
	Manbhoom	Chitra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.91	?	55.59	?
		Karagdeha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.70	?	61.28	?
		Kamphar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.29	0.77	64.15	61.93
		Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.10	0.59	51.22	42.30
	Singbhoom	Palnaw	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	?	46.75	?
		Sills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Butumat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.23	?	?	?
		Hosseinabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.36	?	64.48	?
	Manbhoom	Gurwah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Chyetassa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	0.89	43.81	53.24
		Chakradhar-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.85	?	57.05	?
		Ghatilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.79	?	56.59	?
	Manbhoom	Buharagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Purulia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.10	0.64	46.03	49.78
		Godinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.38	0.8	49.87	46.90
		Kaphunath-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.36	?	61.80	?
	Chas	Barrabhoom	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.90	?	37.56	?
		Jhalda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
	Chas	Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.02	?	59.96	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 8th February 1887.



**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS  
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 4TH OF  
FEBRUARY 1887.**

The meteorology of the past week calls for very brief notice. Pressure has oscillated slightly and somewhat irregularly during the week, but has been unusually low for the period. Winds have hence been abnormal in direction, southerly winds prevailing during the latter part of the week in South Bengal and Orissa. Temperature was very considerably below the average, the deficiency being quite as marked in the day as in the night temperature. The abnormal conditions in Bengal appear to be mainly due to the weather in Upper India, where pressure is unusually deficient, and where also frequent depressions continue to originate and move eastwards.

A few light local showers fell in East Bengal on the 30th. The disturbed state in the Himalayan area accompanying the large snowfall of the past month is indicated by the occasional occurrence of local showers in the northern districts of North Bengal during the week.

The changes of pressure during the week were rapid and mainly dependent upon the oscillations in Upper India. The mean pressure of the week was very considerably below the normal. The deficiency averaged  $\cdot 12''$  in Orissa and South-West Bengal,  $\cdot 1''$  in East Bengal and North Behar,  $\cdot 12''$  in Chutia Nagpur, and  $\cdot 14''$  in South Behar.

The chief features of the temperature of the week are given by the following data for eight representative stations:—

*Table showing the excess or defect of the actual temperature from the normal for the week ending 4th February 1887.*

	Normal mean maximum temperature for the week ending 4th February 1887.	Actual mean maximum temperature for the week ending 4th February 1887.	Variation of actual from normal.	Normal mean minimum temperature for the week ending 4th February 1887.	Actual mean minimum temperature for the week ending 4th February 1887.	Variation of actual from normal.	Normal mean daily temperature for the week ending 4th February 1887.	Actual mean daily temperature for the week ending 4th February 1887.	Variation of actual from normal.
Cuttack ... ..	80.2	85.1	-1.1	61.7	59.5	-2.2	74.0	72.3	-1.7
Calcutta ... ..	78.5	75.1	-3.4	63.3	59.9	-3.4	67.4	64.6	-2.8
Burdwan ... ..	76.3	76.6	-.3	55.6	50.7	-4.9	67.5	63.7	-3.8
Dacca ... ..	79.7	75.1	-4.6	66.0	52.1	-13.9	67.9	63.6	-4.3
Purneah ... ..	76.4	69.6	-6.8	47.7	45.8	-1.9	62.0	57.3	-4.7
Bankipore ... ..	74.6	71.7	-2.9	60.0	47.7	-12.3	62.3	59.7	-2.6
Hazariabagh ... ..	74.2	70.5	-3.7	61.5	48.3	-13.2	62.8	59.4	-3.4
Darjeeling ... ..	45.5	36.9	-8.6	32.5	31.1	-1.4	38.0	34.0	-4.0

The mean temperature of the week was  $4^{\circ}$  below the normal in East and South-West Bengal,  $3\frac{1}{2}^{\circ}$  in North Behar and Chutia Nagpur,  $2\frac{1}{2}^{\circ}$  in South Behar and  $2^{\circ}$  in Orissa.

The maximum temperature was from  $1^{\circ}$  (at Cuttack) to  $7^{\circ}$  (at Darjeeling and Purneah) below the normal, and the minimum or night temperature  $1\frac{1}{2}^{\circ}$  (at Cuttack) to  $4\frac{1}{2}^{\circ}$  (at Dacca and Purneah) below the average.

No rain fell in Orissa, South West Bengal, Behar and Chutia Nagpur. A few light local showers of little importance fell in East Bengal and the northern districts of North Bengal, but, except Darjeeling, no district received an eighth of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 4th of February 1887:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average more or less than normal for week.	Of week.		Rainy days.		Since 1st of January.		Since 15th Mar. 1886.			
			of highest of each day.	of lowest of each day.	of mean for each day.		Average.	Normal average.	Variation.	Average number of days.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	10.4	48.3	50.8	59.5	75.2	-1.8	Nil	0.25	-0.25	0.0	0.5	-0.5	0.33	0.48	61.36	53.76
South-West Bengal	85.3	42.9	76.5	51.6	64.1	-3.5	Nil	0.25	-0.25	0.0	0.6	-0.6	1.67	0.54	56.94	52.08
East Bengal	78.1	41.1	75.3	50.4	61.9	-4.2	0.04	0.25	-0.10	0.3	0.5	-0.2	1.69	0.61	81.71	75.00
North Bengal	76.2	43.5	72.5	47.7	60.1	—	0.01	0.15	-0.11	0.1	0.3	-0.2	1.75	0.43	77.10	69.37
North Behar	75.0	41.8	70.3	47.4	58.3	-3.3	Nil	0.11	-0.11	0.0	0.4	-0.4	1.98	0.59	67.00	47.26
South Behar	76.0	41.0	72.7	46.8	60.8	-2.3	Nil	0.16	-0.16	0.0	0.5	-0.5	1.85	0.62	63.71	42.64
Chutia Nagpur	74.5*	42.7*	70.9*	48.2*	59.6*	-3.4*	Nil	0.19	-0.19	0.0	0.5	-0.5	1.95	0.51	55.92	49.16

\* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;  
The 8th February 1887.

JOHN ELLIOT,  
Meteorological Reporter to the Govt. of Bengal.

## Statement of Rainfall in Bengal for the week ending Friday (6 p m.), the 4th of February 1887—concl'd.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of January 1887.	Average total rain fall from 1st of January.	Total rain fall since 15th May. 1886.	Average rainfall from 15th May to date.
			Sunday, 29th January.	Monday, 30th January.	Tuesday, 31st January.	Wednesday, 1st February.	Thursday, 2nd February.	Friday, 3rd February.	Saturday, 4th February.	Number of rainy days.	of rainfall week.				
NORTH BENGAL—continued.	Saidpur	Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.80	0.43	59.95	43.02
		Sawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.53	0.77	59.91	43.30
SOUTH BENGAL	Shahabad	Chauran	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.86	0.62	63.92	39.25
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.78	0.83	49.88	38.30
		Dumra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.56	?	51.05	?
		Bhubanah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.27	0.79	53.03	40.48
		Sasaram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.16	0.55	53.47	40.31
		Arran	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.50	0.75	68.24	38.75
		Mohania	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.63	?	28.30	?
	Gya	Aurangabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.59	0.65	66.84	41.74
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.36	0.57	66.98	41.20
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.75	0.78	65.33	39.38
		Jamnabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.55	0.69	64.03	39.01
		Arwal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.61	?	54.18	?
		Daudnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.95	?	54.16	?
		Sherghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.40	?	61.25	?
		Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.30	?	?	?
		Pakri Barawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.01	?	68.62	?
		Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.45	0.64	65.63	40.99
	Patna	Dhupore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.05	0.40	71.80	39.81
		Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.04	0.64	53.92	41.68
		Barru	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.55	0.50	61.23	39.52
		Bickram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.09	?	?	?
		Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.35	?	?	?
	Monghyr	Begoeseri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.09	0.58	52.42	39.07
		Monghyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.87	0.43	66.87	45.31
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.39	0.71	59.88	42.54
		Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.15	?	55.01	?
	South Bhugulpore.	Sheikpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.80	?	63.16	?
		Bhugulpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.23	0.53	64.83	41.15
		Banks	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.76	0.64	60.44	43.45
		Koibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.03	?	52.68	?
	Sonthal Pergunnahs.	Rajmehal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	0.15	86.40	40.39
		Godda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.63	0.46	55.32	44.31
		Pakour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.46	0.12	85.02	50.28
		Nya Doonka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.93	0.63	71.97	53.07
		Deoghar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.28	0.66	61.34	40.88
		Jamtara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.57	0.21	68.30	47.43
		Simra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.03	?	55.94	?
		Namhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.64	?	?	?
CHUTIA MAG-PUR.	Hazaribagh	Pachamua (Girdi)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	0.49	60.96	47.15
		Hazaribagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.60	0.55	58.65	47.65
		Semantapur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.13	0.17	53.94	45.75
		Manudi Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.63	0.31	58.60	46.74
		Jhoomrah Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.90	0.08	61.80	63.37
		Barhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.49	?	69.58	?
		Chatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.81	?	61.75	?
		Karagdeha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Kamghar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.91	?	55.79	?
		Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.70	?	61.28	?
	Lohardugga	Palamow	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.29	0.77	64.15	51.92
		Silli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.10	0.59	51.22	42.30
		Batumat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	?	46.75	?
		Hosainabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.23	?	?	?
		Gurwah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.36	?	64.48	?
		Chyonesha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	0.89	43.81	52.24
	Singbhoom	Chakradhar-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.85	?	57.05	?
		Ghatsilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.79	?	56.59	?
		Baharagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Parulia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.10	0.64	46.03	49.78
	Manbhoom	Gopinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.38	0.68	49.87	45.19
		Raghunath-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.36	?	61.80	?
		Barrabhoom	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.90	?	37.56	?
		Jhalda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?	?
		Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.02	?	59.96	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 8th February 1887.

### SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 4TH OF FEBRUARY 1887.

THE meteorology of the past week calls for very brief notice. Pressure has oscillated slightly and somewhat irregularly during the week, but has been unusually low for the period. Winds have hence been abnormal in direction, southerly winds prevailing during the latter part of the week in South Bengal and Orissa. Temperature was very considerably below the average, the deficiency being quite as marked in the day as in the night temperature. The abnormal conditions in Bengal appear to be mainly due to the weather in Upper India, where pressure is unusually deficient, and where also frequent depressions continue to originate and move eastwards.

A few light local showers fell in East Bengal on the 30th. The disturbed state in the Himalayan area accompanying the large snowfall of the past month is indicated by the occasional occurrence of local showers in the northern districts of North Bengal during the week.

The changes of pressure during the week were rapid and mainly dependent upon the oscillations in Upper India. The mean pressure of the week was very considerably below the normal. The deficiency averaged  $\cdot 12''$  in Orissa and South-West Bengal,  $\cdot 1''$  in East Bengal and North Behar,  $\cdot 12''$  in Chutia Nagpur, and  $\cdot 14''$  in South Behar.

The chief features of the temperature of the week are given by the following data for eight representative stations:—

Table showing the excess or defect of the actual temperature from the normal for the week ending 4th February 1887.

	Normal mean maximum temperature for the week ending 4th February 1887.	Actual mean maximum temperature for the week ending 4th February 1887.	Variation of actual from normal.	Normal mean minimum temperature for the week ending 4th February 1887.	Actual mean minimum temperature for the week ending 4th February 1887.	Variation of actual from normal.	Normal mean daily temperature for the week ending 4th February 1887.	Actual mean daily temperature for the week ending 4th February 1887.	Variation of actual from normal.
Cuttack	86.2	85.1	-1.1	61.7	59.5	-2.2	74.0	72.3	-1.7
Calcutta	78.5	75.1	-3.4	56.3	52.9	-3.4	67.4	64.0	-3.4
Burdwan	75.3	76.6	+1.3	55.6	56.7	+1.1	65.7	67.5	+1.8
Dacca	79.7	75.1	-4.6	66.0	62.1	-3.9	67.9	63.6	-4.3
Purneah	76.4	69.6	-6.8	47.7	45.4	-2.3	62.0	57.7	-4.3
Ranpore	74.6	71.7	-2.9	50.0	47.7	-2.3	62.3	59.7	-2.6
Hazariabagh	74.2	70.6	-3.6	51.5	48.2	-3.3	62.8	59.4	-3.4
Darjeeling	47.5	36.0	-11.5	32.5	31.1	-1.4	38.0	34.0	-4.0

The mean temperature of the week was  $4^{\circ}$  below the normal in East and South-West Bengal,  $3\frac{1}{2}^{\circ}$  in North Behar and Chutia Nagpur,  $2\frac{1}{2}^{\circ}$  in South Behar and  $2^{\circ}$  in Orissa.

The maximum temperature was from  $1^{\circ}$  (at Cuttack) to  $7^{\circ}$  (at Darjeeling and Purneah) below the normal, and the minimum or night temperature  $1\frac{1}{2}^{\circ}$  (at Cuttack) to  $4\frac{1}{2}^{\circ}$  (at Dacca and Purneah) below the average.

No rain fell in Orissa, South-West Bengal, Behar and Chutia Nagpur. A few light local showers of little importance fell in East Bengal and the northern districts of North Bengal, but, except Darjeeling, no district received an eighth of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 4th of February 1887:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average number of days above or below normal mean of week.	Of week.		Rainy days.		Since 1st of January.		Since 15th May 1886.			
			of highest of each day.	of lowest of each day.	of mean for each day.		Average.	Normal average.	Variation.	Average number of week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	10.4	48.3	50.8	59.5	76.2	-1.3	Nil	0.25	-0.25	0.0	0.5	-0.5	0.38	0.43	61.36	53.70
South-West Bengal	85.3	42.9	76.5	51.0	64.1	-3.8	Nil	0.25	-0.25	0.0	0.0	-0.0	1.07	0.54	56.94	52.08
East Bengal	78.1	41.1	73.3	50.4	61.9	-4.3	0.04	0.23	-0.19	0.3	0.5	-0.2	1.69	0.61	81.71	75.09
North Bengal	76.2	43.5	72.5	47.7	60.1	—	0.01	0.13	-0.11	0.1	0.3	-0.2	1.75	0.43	77.10	69.37
North Behar	75.0	41.8	70.3	47.4	58.8	-3.3	Nil	0.11	-0.11	0.0	0.4	-0.4	1.98	0.59	67.90	47.26
South Behar	76.0	41.0	72.7	46.8	60.8	-2.3	Nil	0.16	-0.16	0.0	0.5	-0.5	1.85	0.62	63.71	42.61
Chutia Nagpur	74.5	42.7	70.0	48.2	59.6	-3.4	Nil	0.19	-0.19	0.0	0.5	-0.5	1.95	0.51	53.92	49.19

\* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;  
The 8th February 1887.

JOHN ELIOT,  
Meteorological Reporter to the Govt. of Bengal.



**Abstract of the results of Meteorological Observations taken at the Alipore  
Observatory in the month of January 1887.**

	inches.	Date.	Hour.
The mean pressure of the month ... ..	29.943		
The average pressure of January from 24 years' registers ...	30.014		
The highest pressure in the month ... ..	30.126	12th	10h.
The lowest pressure in the month ... ..	29.731	26h	16h.
The range of pressure ... ..	0.395		
Hours.			
The total number of hours of bright sunshine during the month	279.4		
The maximum possible number of hours of sunshine ...	337.3		
°			
The mean temperature of the month ... ..	64.3		
The average temperature of January from 24 years' registers	67.7		
The highest temperature in the month ... ..	81.1	6h & 7th	
The lowest temperature in the month ... ..	47.1	24th	
The range of temperature during the month ... ..	34.0		
The mean daily range of temperature ... ..	20.0		
The greatest range of temperature in one day ... ..	24.3	25th	
Per cent.			
The mean humidity of the month ... ..	72		
The average humidity of January from 24 years' registers ...	71		
inches.			
The mean vapour tension of the month ... ..	0.431		
The average vapour tension of January from 9 years' registers	0.467		
The mean cloud proportion of the month ... ..	1.32		
The average cloud proportion of January from 10 years' registers	1.39		
Inches.			
The total rainfall of the month ... ..	1.49		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	1.41		
The average fall of January from 48 years' registers ...	0.43		
The greatest fall in 24 hours ... ..	0.93	7th	
Days.			
The number of rainy days in the month ... ..	3		
The average number of rainy days in January from 24 years' registers ... ..	2		
°			
The mean maximum equilibrium temperature of solar radiation during the month ... ..	128.9		
The mean difference of sun and air temperatures ... ..	53.7		
The greatest sun temperature ... ..	140.9	26th	
The greatest excess of sun over air temperature ... ..	63.4	22nd	
The mean temperature of the nocturnal radiation thermometer on woollen cloth ... ..	46.8		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground ... ..	8.4		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature ... ..	12.0	30th	
Miles.			
The mean movement of the wind per day ... ..	87.1		
The greatest movement of the wind in one day ... ..	186.0	27th	
The greatest movement of the wind in one hour ... ..	18.0	7th 5 to 6 P.M. & 6 to 7 P.M.	

The number of hours with winds from each of the 8 points—

N. 213, NE. 112, E. 17, SE. 28, S. 52, SW. 79, W. 66, NW. 131, Calm 46.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2.5° lower; and, finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards, is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 7th February 1887.

HENRY F. BLANFORD,  
Meteorological Reporter to the Govt of India.

Results of the Meteorological Observations taken at the Alipore Observatory from  
30th January to 5th February 1887.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1887.		°		Inches.	°	°		°	°	Inches	°	%			Inches.	
Jan.	30th	132.8	10.1	29.831	66.5	77.7	21.2	56.5	60.1	0.436	55.1	70	NNW, calm and variable.	79	Nil	Clear, <i>p.</i>
"	31st	133.5	9.3	.850	66.5	79.0	23.5	55.5	59.2	.410	53.4	65	N by E, WNW and variable.	81	"	Chiefly clear, <i>p.</i>
Feb.	1st	130.6		.891	63.5	73.1	17.8	55.3	54.3	.303	45.2	54	NE by E, NNE and NNW.	110	"	Clear.
"	2nd	129.6	10.2	.919	59.7	71.6	22.0	49.6	52.3	.297	44.7	61	N and WNW	83	"	Clear, <i>p.</i>
"	3rd	132.0	10.7	.954	60.6	74.2	25.4	48.8	53.0	.304	45.4	61	SSW and NW by N	71	"	Clear, <i>p.</i>
"	4th	134.9	10.1	.915	64.4	78.6	28.0	50.6	59.2	.444	55.6	74	WSW and SSW	129	"	Clear, <i>p.</i>
"	5th	136.7	9.1	.856	69.5	81.1	19.8	61.3	63.3	.505	59.2	73	W by S and WNW	109	"	Clear, <i>≡</i> , <i>p.</i>

The mean pressure of the seven days

The average pressure of the corresponding period for 24 years, S. G.'s Office

Inches.

29.888

29.976

The total number of hours of bright sunshine

Hours.

69.7

The maximum possible number of hours of sunshine

77.8

The mean temperature of the seven days

°

64.4

The average temperature of the corresponding period for 24 years, S. G.'s Office

69.8

The extreme variation of temperature

32.3

The maximum temperature

81.1

The highest velocity of the wind in one hour

Miles.

12

The highest pressure of wind on one square foot

lbs.

... Not measurable.

The mean relative humidity

%

65

The average relative humidity of the corresponding period for 24 years, S. G.'s Office

71

The total fall of rain from 30th January to 5th February 1887

Inches.

Nil.

The average fall of the corresponding period for 24 years, S. G.'s Office

0.27

The total fall from 1st January to 5th February 1887

1.49

The average fall of the corresponding period for 24 years, S. G.'s Office

0.55

The mean pressure, temperature, &amp;c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≡, fog, Δ, dew.

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 7th February, 1887.

Abstract of the results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of February 1887.

		☉	Date.
The mean temperature during the month	...	65.4	
The highest temperature during the month	...	82.9	6th.
The lowest temperature during the month	...	47.9	24th.
The range of temperature during the month	...	35.0	
The mean daily range of temperature during the month	...	22.0	
The greatest range of temperature in one day during the month	...	26.2	25th.
The mean humidity during the month	...	71	%
The mean vapour tension during the month	...	4.9	Inches.
The total rainfall of the month	...	1.36	
The greatest fall in 24 hours	...	1.08	8th
The number of rainy days in the month	...	4	

HENRY F. BLANFORD,

*Meteorological Reporter to the Govt. of India.*

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 7th February 1887.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th January to 5th February 1887.

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1887.		°	°	°	°	°	Inches.	°	%	Inches.
January	30th	67.3	79.7	22.9	16.8	61.5	.470	57.2	71	Nil
"	31st	68.9	80.9	24.5	56.4	61.0	.432	54.9	61	"
February	1st	64.8	74.7	19.6	55.1	54.6	.294	44.4	48	"
"	2nd	61.7	74.1	24.1	50.0	54.1	.320	46.7	58	"
"	3rd	62.5	76.4	24.5	49.9	54.8	.325	47.1	57	"
"	4th	65.2	80.7	25.8	51.9	61.6	.502	59.0	81	"
"	5th	71.3	83.7	21.8	61.9	64.1	.504	59.2	65	"

The mean temperature of the seven days ... 66.0  
 The extreme variation of temperature ... 33.8  
 The maximum temperature ... 83.7

The mean relative humidity ... 63

The total fall of rain from 30th January to 5th February 1887 ... Nil

The mean temperature and humidity are obtained by applying to the mean of the 10a, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;  
The 7th February 1887.

HENRY F. BLANFORD,  
*Meteorological Reporter to the Govt. of India.*



## MEMORANDUM.

THE returns from the principal Municipalities in Bengal for the week ending 22nd January 1887 furnish the following particulars:—

1. That the birth-rate in the Municipalities amounted to 22.0 per 1,000 of population as opposed to 21.1 per 1,000 during the preceding week ending 15th January, and the death-rate to 28.5 against very nearly the same proportion, viz., 28.3 per 1,000.

2. That the following Municipalities returned the highest proportions of births and deaths:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Durbhanga	...	47.2	Suburbs of Calcutta	...	50.0
Beaulah	...	36.8	Purneah	...	38.1
Bhagulpore	...	32.6	Utterpara	...	37.8
Gya	...	32.1	Serampore	...	37.3
Bali	...	31.6	Beaulah	...	36.8
			Bhagulpore	...	34.4
			Dacca	...	30.5

3. That the mortality from the specific death-causes stood as follows in comparison with the similar information for the preceding week:—

					Ratio per mille during the weeks ending—	
					22nd January 1887.	15th January 1887.
Cholera	...	...	...	...	2.6	3.0
Small-pox	...	...	...	...	...	...
Fever	...	...	...	...	9.9	11.1
Bowel-complaints	...	...	...	...	6.8	5.8
Injury	...	...	...	...	.2	.3
Other causes	...	...	...	...	9.0	8.3

indicating chiefly that there was a sensible abatement in the death-rate from fever with a noticeable increase in that from bowel-complaints.

4. That eliminating small pox from which no death was reported to have occurred, and injury the casualties from which were nowhere large, the rest of the diseases, above enumerated, caused the greatest loss of life in the following Municipalities:—

<i>Cholera.</i>			<i>Fever.</i>			<i>Bowel-complaints.</i>			<i>Other causes.</i>		
		Ratio per <i>mille.</i>			Ratio per <i>mille.</i>			Ratio per <i>mille.</i>			Ratio per <i>mille.</i>
Krishnaghur	...	11.4	Beaulah	...	26.3	Serampore	...	13.7	Bhagulpore	...	16.3
Suburbs of Calcutta	...	7.4	Purneah	...	24.3	Suburbs of Calcutta	...	13.4	Suburbs of Calcutta	...	15.3
Dacca	...	7.1				Durbhanga	...	10.2	Puri	...	14.7
									Gya	...	13.7
									Serampore	...	11.8

5. That the mortality in relation to *Sex*, *Class* and *Age* stood as follows:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	28.3	Christians	...	26.1	Under 1 year	...	198.9
Females	...	28.9	Hindus	...	28.6	1 and under 5 years	...	46.0
Ratio of male deaths to every 100 female deaths	111		Mahomedans	...	28.7	5 " " 10 " "	...	13.1
			Other classes	...	36.4	10 " " 15 " "	...	10.0
						15 " " 20 " "	...	16.7
						20 " " 30 " "	...	18.4
						30 " " 40 " "	...	18.0
						40 " " 50 " "	...	23.3
						50 " " 60 " "	...	32.8
						60 years and upwards	...	76.9

The 7th February 1887.

R. LIDDERDALE, M.D., Deputy Surgeon-General,  
Sanitary Commissioner for Bengal.

*Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 22nd January 1887.*

[illegible]

A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1891, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives of the Darjiling Municipality who were included in the above table, except "Ade," the ratios under which have been omitted, inasmuch as the census of the Europeans, taken in February 1891, was not reliable owing to the Europeans being at a minimum in that month.

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## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

## SOUTH-WESTERN CIRCLE.

## CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of December 1886.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
694	1. Grain ...	9,671	1	9,672	9,672	9,26,938	* For details, see next page.
53	2. Cotton ...	1,284	10	1,294	1,294	1,38,373	
368	3. Oilseeds ...	429	5,918	6,347	6,347	5,33,139	
...	4. Salt ...	...	...	...	...	...	
16	5. Piece-goods ...	36	36	72	72	18,530	
123	6. Metal ...	4,181	7	4,188	4,188	66,526	
3,019	7. Building materials ...	26,926	569	27,495	27,495	28,38,857	
609	8. Miscellaneous* ...	9,923	3,291	13,214	13,214	84,999	
2 rafts	9. Fuel ...	...	...	...	...	...	
...	10. Timber ...	24 No.	...	24 No.	24 No.	960	
...	11. Bamboos ...	...	...	...	...	...	
4,882 & 2 rafts	12. Total ...	52,150 & 24 No.	9,832	62,282 & 24 No.	62,282 & 24 No.	46,08,322	
7,829	13. Total of same month last year ...	...	...	65,795	65,795	46,79,942	
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo ... No.	4,849	533	4,882	Total tollage of month— 24 + 25 + 26 ...		37,361 13 3
14A.	Ditto empty ditto ...	...	...	3,001	Total tollage of same month last year ...		36,282 3 3
15.	Total number of boats plying passenger ... No.	265	4	269			
16.	Total registered tonnage, cargo ...	1,37,202	29,075	1,66,277	Memorandum of Tollage.		
17.	Total registered tonnage, passenger ...	12,800	375	13,175			
18.	Ton-mileage ...	...	...	...			Rs. A. P.
19.	Estimated value of cargo ...	39,97,627	6,09,735	46,07,362	1. Balance not recovered on the 1st of the month		1,272 8 3
20.	Number of passengers ...	1,006	3	1,009	2. Tollage per month ...		37,361 13 3
21.	Rafts, bamboos c. ft.	...	...	...	3. Total ...		38,634 5 6
22.	Do, bullahs "	...	...	...			
23.	Estimated value of rafts ...	960	...	960			
24.	Tollage on boats Rs.	30,381-13-9	6,970-15-6	37,352-13-3			
25.	Compounded tollage on boats Rs.	...	...	...	4. Amount paid into treasury during the month ...		37,081 10 9
26.	Tollage on rafts "	9-0-0	...	9-0-0			
27.	Total tollage on boats per ton-mile ...	...	...	...			
28.	Ditto on rafts per 100 cubic feet ...	...	...	...	5. Balance due at the end of the month ...		1,552 10 9

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS),  
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
790	(a) Jute ...	20,588	.....	20,588	20,17,613	20,588	20,17,613	
113	(b) Jaggery ...	538	11	549	53,777	549	53,777	
6	(c) Sugar ..	24	.....	24	4,965	24	4,965	
6	(d) Tobacco ...	24	30	54	12,200	54	12,200	
1,296	(e) Fish ...	233	1	234	65,606	234	65,606	
14	(f) Hides ...	39	.....	39	8,900	39	8,900	
62	(g) Poultry ...	13	.....	13	11,404	13	11,404	
80	(h) Hay and straw ...	332	.....	332	5,820	332	5,820	
48	(j) Oils ...	.....	478	478	66,950	478	66,950	
34	(k) Earthenware ...	9	1	10	190	10	190	
570	(m) Other miscellaneous	5,126	48	5,174	5,91,432	5,174	5,91,432	
3,019	Total Miscellaneous...	26,926	569	27,495	28,38,857	27,495	28,38,857	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.  
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

*Statement showing Quantities of Goods carried during the month of December 1886.*

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
4,609	1. Grain ...	7,996	.....	7,996	5,20,639	7,996	5,20,639
12	2. Cotton ...	72	.....	72	40,500	72	40,500
10	3. Oilseeds ...	57	49	106	11,960	106	11,960
53	4. Salt ...	437	275	712	59,850	712	59,850
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
1	6. Metal ...	17	.....	17	1,500	17	1,500
350	7. Building materials	2,614	.....	2,614	9,202	2,614	9,202
1,063	8. Miscellaneous* ...	3,818	524	4,342	4,59,329	4,342	4,59,329
210	9. Fuel ...	2,529	103	2,632	21,409	2,632	21,409
2 rafts	10. Timber ...	12 No.	.....	12 No.	480	12 No.	480
1 raft	11. Bamboos ...	40 "	.....	40 "	5	40 "	5
6,308 & 3 rafts	12. Total ...	17,540 & 52 No.	951	18,491 & 52 No.	11,24,874	18,491 & 52 No.	11,24,874
8,013	13. Total of same month last year.			34,589	12,24,878	34,589	12,24,878

  

	Up.	Down.	Total.		Rs.
14. Total number of boats plying cargo No.	6,243	65	6,308	Total tollage of month— 24 + 25 + 26 ...	10,026
14A. Ditto empty ditto ...	.....	.....	1,393		
15. Total number of boats plying passenger No.	298	11	309	Total tollage of same month last year ...	9,847
16. Total registered tonnage, cargo ...	56,771	1,520	58,291		
17. Total registered tonnage, passenger ...	20,675	675	21,350	<i>Memorandum of Tollage.</i>	
18. Ton-mileage ...	.....	.....	.....		Rs
19. Estimated value of cargo ...	10,31,294	93,095	11,24,389	1. Balance not recovered on the 1st of the month ...	376
20. Number of passengers ...	1,815	50	1,865	2. Tollage per month ...	10,026
21. Rafts, bamboos c ft.	40	.....	46		
22. Do., bullahs "	.....	.....	.....	3. Total ...	10,403
23. Estimated value of rafts ...	485	.....	485		
24. Tollage on boats Rs.	9,122-3-9	902-4-0	10,024-7-9	4. Amount paid into treasury during the month ...	10,018
25. Compounded tollage on boats Rs.	.....	.....	.....		
26. Tollage on rafts "	2-8-0	.....	2-8-0		
27. Total tollage on boats per ton-mile ...	.....	.....	.....		
28. Ditto on rafts per 100 cubic feet ...	.....	.....	.....	5. Balance due at the end of the month ...	385



## ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

## TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
11	(a) Jute ...	124	.....	124	12,162	124	12,162
171	(b) Jaggery ...	814	.....	814	68,394	814	68,394
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
8	(d) Tobacco ...	122	.....	122	27,424	122	27,424
228	(e) Fish ...	56	1	57	14,221	57	14,221
2	(f) Hides ...	13	... ..	13	3,000	13	3,000
.....	(g) Poultry ...	.....	.....	.....	.....	.....	.....
272	(h) Hay and straw	617	.....	617	10,805	617	10,805
49	(i) Oils ...	261	26	287	40,215	287	40,215
91	(k) Earthenware .	92	11	103	1,445	103	1,445
231	(m) Other miscella- neous	1,719	486	2,205	2,81,663	2,205	2,81,663
1,963	Total Miscellaneous ...	3,818	524	4,342	4,59,329	4,342	4,59,329

**ABSTRACT FOR THE MONTH OF DECEMBER 1886 AS COMPARED WITH THE  
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

		TRAFFIC, 1886-87.			TRAFFIC, 1885-86.								
		During the month.	To end of the month.		During the month.	To end of the month.							
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.			
Calcutta and Eastern Canals	...	37,361	13	3	2,19,458	0	6	36,282	3	3	2,32,404	6	0
Tolly's Nullah	...	10,026	15	9	66,695	10	0	9,847	2	0	70,651	4	3
Total	...	47,388	13	0	2,86,153	10	6	46,129	5	3	3,03,055	10	3

Calcutta,  
The 8th February 1887.

A. D. McARTHUR, Major, R.E.,  
Under-Secretary to the Government of Bengal.

**CIRCULAR AND EASTERN CANALS.**

*Approximate return of traffic for the week ending Saturday, the 5th February 1887, compared  
with the corresponding week of the previous year.*

NATURE OF CARGO.			WEEK ENDING SATURDAY, THE 5TH FEBRUARY 1887.			WEEK ENDING SATURDAY, THE 6TH FEBRUARY 1886.		
			Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
			No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ... ..	...	...	1,912	4,00,746	7,224	1,610	3,84,360	6,166
Jute ... ..	...	...	125	79,641	1,361	129	85,475	1,444
Firewood ... ..	...	...	130	1,01,325	1,362	207	1,02,845	1,357
Other articles ... ..	...	...	971	2,60,210	3,639	1,150	2,92,470	4,321
Total ...	...	...	3,138	8,41,922	13,586	3,096	8,65,090	13,288

## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 29th January 1887, on 1,515 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	269,205*	3,09,109 8 0*	25,83,077 30	6,67,288 11 9	18,117 0 0	9,94,515 3 9	64,772½	106,232½	171,005½
Or per mile of railway ...	.....	204 0 6	.....	440 7 4	11 15 4	656 7 2	.....	.....	.....
For previous 3 weeks of half-year ...	685,198	8,13,069 0 0	81,58,339 30	20,18,659 1 9	57,966 11 0	28,39,694 12 9	207,200½	338,967½	546,167½
Total for 4 weeks ...	954,403	11,22,178 8 0	1,07,41,417 20	26,85,947 13 6	76,083 11 0	38,84,210 0 0	271,973	445,200	717,173
COMPARISON.									
Total for corresponding week of previous year ...	221,142½	2,73,963 9 8	28,23,980 30	6,80,837 15 3	32,196 8 3	9,86,938 1 2	25,440	113,830	182,270
Per mile of railway corresponding week of previous year ...	.....	180 12 9	.....	449 6 4	21 4 0	651 7 1	.....	.....	.....
Total to corresponding date of previous year ...	908,792	11,01,250 13 10	1,13,23,154 20	29,26,811 9 9	1,02,965 7 0	41,31,027 14 7	292,311	468,153	760,464

\* The increase in coaching traffic is principally due to "Magh Mela" at Allahabad.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
1,515	9,86,938	651	1,515	9,94,515	656	1,515	3,85,32,931	25,434	1,515	3,82,79,262	25,265	.....	2,56 669

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th January 1887, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,904	6,166 3 0	46,805 10	3,236 3 0	32 6 0	9,434 12 0	1,676	718	2,394
Or per mile of railway ...	208	107 12 10	809 30	54 9 3	0 9 0	164 15 1	.....	.....	.....
For previous 3 weeks of half-year ...	35,430	17,739 7 0	1,27,209 10	8,634 0 0	103 15 0	26,477 6 0	5,356	2,168	7,524
Total for 4 weeks ...	47,334	23,905 10 0	1,73,514 20	11,870 3 0	136 5 0	35,912 2 0	7,032	2,886	9,918
COMPARISON.									
Total for corresponding week of previous year ...	10,000½	5,073 6 4	49,227 0	2,993 11 0	86 2 6	8,153 3 10	1,830	544	2,394
Per mile of railway corresponding week of previous year ...	175	88 11 2	860 30	52 5 5	1 8 1	142 8 8	.....	.....	.....
Total to corresponding date of previous year ...	49,709½	26,114 4 3	2,05,978 0	10,446 9 0	292 9 3	36,853 6 6	8,159	3,214	11,373

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
57½	8,153	143	57½	9,435	165	57½	4,07,048	7,110	57½	4,38,824	7,663	31,276	.....



## DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 29th January 1887, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,814	489 1 0	16,424 20	421 14 0	11 0 0	921 15 0	344½	149	493½
Or per mile of railway ...	.....	40 12 1	.....	35 2 6	0 14 8	76 13 3	.....	.....	.....
For previous 3 weeks of half-year ...	7,766	1,301 1 0	57,534 20	1,366 9 0	27 10 0	2,695 4 0	1,079	472	1,551
Total for 4 weeks ...	10,610	1,790 2 0	73,959 0	1,788 7 0	38 10 0	3,617 3 0	1,423½	621	2,044½
COMPARISON.									
Total for corresponding week of previous year ...	2,451	421 10 5	40,444 20	552 7 0	20 3 0	994 4 5	189	308	497
Per mile of railway corresponding week of previous year ...	.....	35 2 2	.....	46 0 7	1 10 11	82 13 8	.....	.....	.....
Total to corresponding date of previous year ...	10,167	1,711 1 3	1,12,883 10	2,367 5 0	107 4 6	4,185 10 3	737	841	1,578

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
12	994	83	12	922	77	12	38,472	3,206	12	38,933	3,244	461	.....

## SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th January 1887, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,341	3,971 6 0	1,10,637 20	6,055 14 0	125 0 0	10,152 4 0	741	1,201½	1,942½
Or per mile of railway ...	.....	53 1 6	.....	80 15 4	1 10 9	135 11 7	.....	.....	.....
For previous 3 weeks of half-year ...	16,583	12,461 9 0	3,79,617 20	18,568 15 0	469 5 0	31,434 13 0	2,271	3,625½	5,896½
Total for 4 weeks ...	21,924	16,372 15 0	4,90,275 0	24,619 13 0	594 5 0	41,587 1 0	3,012	4,827	7,839
COMPARISON.									
Total for corresponding week of previous year ...	5,825	4,398 4 9	1,06,989 30	3,380 8 0	141 8 9	7,920 5 6	1,498	1,114	2,612
Per mile of railway corresponding week of previous year ...	.....	58 12 10	.....	45 3 1	1 14 3	105 14 2	.....	.....	.....
Total to corresponding date of previous year ...	21,963	18,107 12 6	3,84,479 30	14,079 6 0	594 7 6	32,781 10 0	6,477	5,355	11,832

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
74½	7,920	106	74½	10,152	136	74½	2,98,669	3,992	74½	3,25,443	4,351	26,834	.....

## TARKESSUR BRANCH RAILWAY.

*Approximate Return of Traffic for week ended 29th January 1887, on 22½ miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,254	4,394 0 0	7,089 0	200 6 0	4 8 0	4,598 14 0	959	29	968
Or per mile of railway ...	.....	197 7 9	.....	9 0 1	0 3 3	206 11 1	.....	.....	.....
For previous 3 weeks of half-year ...	51,161	12,694 6 0	20,569 30	695 16 0	23 1 0	13,413 1 0	2,994	92	3,096
Total for 4 weeks ...	68,415	17,088 6 0	27,658 30	896 0 0	27 9 0	18,011 15 0	3,953	121	4,054
COMPARISON.									
Total for corresponding week of previous year ...	18,045½	4,594 13 5	11,972 0	358 13 0	5 12 0	4,959 6 5	1,072	72	1,144
Per mile of railway corresponding week of previous year ...	.....	296 8 2	.....	16 2 0	0 4 2	222 14 4	.....	.....	.....
Total to corresponding date of previous year ...	73,017	18,439 3 3	44,147 0	1,546 10 0	23 3 6	20,009 0 9	4,728	382	5,110

*Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
22½	4,959	223	22½	4,590	207	22½	2,02,512	9,102	22½	1,97,102	8,859	.....	5,410

## INDIAN MIDLAND RAILWAY.

*Approximate Return of Traffic for week ended 29th January 1887, on 42 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,915	1,263 14 3	69,636 10	5,074 10 0	43 5 0	6,381 13 3	194	478	673
Or per mile of railway ...	.....	30 1 6	.....	120 13 2	1 0 6	151 15 2	.....	.....	.....
For previous 3 weeks of half-year ...	6,912	3,639 4 9	1,49,599 0	10,938 1 0	116 12 0	14,703 1 9	706	1,856	2,562
Total for 4 weeks ...	9,827	4,903 3 0	2,19,235 10	16,032 11 0	154 1 0	21,589 15 0	900	2,334	3,234

*Approximate Statement of gross receipts of the Indian Midland Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
.....	.....	.....	42	6,382	152	.....	.....	.....	42	1,14,790	2,753	.....	.....

## EASTERN BENGAL STATE RAILWAY.

Approximate Return of Traffic for week ended 29th January 1887, on 234 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 8 days ...	80,026	41,177 0 0	4,51,405 0	57,777 0 0	10,150 0 0	1,09,104 0 0	11,957	13,070	25,027
Or per mile of railway ...	345	176 0 0	1,929 0	247 0 0	.....	423 0 0	.....	.....	.....
For previous 3 weeks of half-year ...	304,832	1,17,482 0 0	8,50,729 0	1,50,873 0 0	14,150 0 0	2,88,505 0 0	36,372	26,338	62,710
Total for 4 weeks ...	385,478	1,58,659 0 0	13,02,134 0	2,14,650 0 0	24,300 0 0	3,97,609 0 0	48,329	40,008	88,337
COMPARISON.									
Total for corresponding 8 days of previous year (audited) ...	114,237*	41,027 0 0	7,50,438 0	49,852 0 0	7,212 0 0	59,091 0 0	10,882	14,538	25,420
Per mile of railway corresponding period of previous year ...	488	175 0 0	2,352 0	213 0 0	.....	388 0 0	.....	.....	.....
Total for corresponding date of previous year ...	389,409	1,55,702 0 0	18,01,605 0	2,15,781 0 0	20,640 0 0	3,92,125 0 0	47,316	40,343	87,659

\* Includes 39,700 monthly tickets.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
234	98,091	419	234	1,03,104	406	234	37,57,927	16,060	234	43,95,906*	18,786	6,37,979	.....

\* Audited up to week ending 20th November 1886.

## BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ending 29th January 1887, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,411	8,084 0 0*	25,812 0	1,598 0 0	35 0 0	10,621 0 0	3,786	1,421	5,210
Or per mile of railway ...	163	72 0 0	207 0	13 0 0	.....	85 0 0	.....	.....	.....
For previous 3 weeks of half-year ...	68,498	21,942 0 0	60,146 0	3,830 0 0	193 0 0	28,975 0 0	12,002	4,523	16,525
Total for 4 weeks ...	88,909	33,036 0 0	85,958 0	5,428 0 0	138 0 0	39,496 0 0	15,788	5,947	21,735
COMPARISON.									
Total for corresponding week of previous year ...	26,770†	8,035 0 0	24,249 0	1,497 0 0	19 0 0	9,551 0 0	4,020	1,190	5,210
Per mile of railway corresponding period of previous year ...	214	64 0 0	194 0	12 0 0	.....	76 0 0	.....	.....	.....
Total for corresponding date of previous year ...	92,702	32,612 0 0	1,20,918 0	6,631 0 0	67 0 0	38,730 0 0	16,830	5,612	22,442

\* Includes Rs. 676 for haulage postal vans.

† Ditto 5,700 monthly tickets.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
125	9,551	76	125	10,021	85	125	4,36,768	3,494	125	4,82,003*	3,861	45,835	.....

\* Audited up to week ending 20th November 1886.



## DACCA STATE RAILWAY.

*Approximate Return of Traffic for week ending 29th January 1887, on 86 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	11,842	3,905 0 0	(a) 42,427 0	2,614 0 0	40 0 0	6,559 0 0	2,189	993	3,182
Or per mile of railway ...	138	45 0 0	494 0	31 0 0	...	76 0 0	...	...	...
For previous 3 weeks of half-year ...	38,447	12,775 0 0	37,338 0	4,290 0 0	154 0 0	17,219 0 0	6,948	2,492	9,440
Total for 4 weeks ...	50,329	16,680 0 0	79,825 0	6,904 0 0	194 0 0	23,778 0 0	9,137	3,485	12,622
COMPARISON.									
Total for corresponding week of previous year (audited) ...	7,961	1,639 0 0	35,489 0	* 3,393 0 0	695 0 0	5,637 0 0	387	2,204	2,591
Per mile of railway corresponding period of previous year ...	93	19 0 0	413 0	40 0 0	...	59 0 0	...	...	...
Total to corresponding date of previous year ...	34,415	7,130 0 0	48,992 0	5,206 0 0	923 0 0	13,259 0 0	2,613	7,680	9,593

\* Rs. 2,998 for Railway materials for construction.  
 (a) Includes 25,000 maunds, Rs. 500, and 200 miles for ballast trains.

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Dacca State Railway.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
86	Rs. 5,637	66	86	Rs. 6,559	76	63	Rs. 88,868	83	86	Rs. 2,19,764*	59	Rs. 1,30,896	.....

\* Audited up to week ending 20th November 1886.

## NALHATI STATE RAILWAY.

*Approximate Return of Traffic for the week ending 29th January 1887, on 27½ miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,746	1,101 0 0	11,166 0	624 0 0	16 0 0	1,741 0 0	569	254	763
Or per mile of railway ...	101	40 7 0	410 0	22 14 0	0 9 0	63 14 0	...	...	...
For previous 3 weeks of half-year ...	7,863	2,917 0 0	50,573 0	2,545 0 0	53 0 0	5,545 0 0	1,599	1,000	2,599
Total for 4 weeks ...	10,609	4,043 0 0	61,739 0	3,169 0 0	69 0 0	7,285 0 0	2,168	1,254	3,562
COMPARISON.									
Total for corresponding week of previous year ...	2,163	899 14 9	8,695 0	623 15 0	8 2 0	1,551 15 9	569	224	763
Per mile of railway corresponding week of previous year ...	90	33 0 0	319 0	22 14 0	5 0 0	56 3 0	...	...	...
Total to corresponding date of previous year ...	10,329	3,961 14 9	59,245 0	2,728 6 0	76 7 0	6,765 11 9	2,181	1,089	3,270

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Nalhati State Railway.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
27½	Rs. 1,632	56	27½	Rs. 1,741	64	27½	Rs. 64,337	2,383	27½	Rs. 69,057	2,536	Rs. 4,720	.....

## KAUNIA AND DHARLLA STATE RAILWAY.

*Approximate Return of Traffic for the week ended 29th January 1887, on 37 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated.)	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	1,700	633 0 0	6,050 0	307 0 0	991 0 0	1,931 0 0	259	269	528
Or per mile of railway...	46	17 0 0	164 0	8 0 0	.....	25 0 0	7	7	14
For previous 4 weeks of half-year...	6,130	2,135 0 0	16,915 0	1,094 0 0	3,437 0 0	6,066 0 0	814	854	1,668
Total for 5 weeks...	7,839	2,768 0 0	22,974 0	1,401 0 0	4,428 0 0	8,597 0 0	1,073	1,123	2,196
COMPARISON.									
Total for corresponding week of previous year...	2,046	1,018 0 0	1,781 0	119 0 0	1,650 0 0	2,787 0 0	259	269	518
Per mile of railway corresponding week of previous year...	55	28 0 0	48 0	3 0 0	.....	31 0 0	7	7	14
Total to corresponding date of previous year...	8,050	3,698 0 0	11,784 0	745 0 0	6,358 0 0	10,802 0 0	1,110	1,110	3,220

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Kaunia and Dharlla State Railway.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
37	2,787	75	37	1,931	52	37	1,05,534	65	37	1,01,933*	63	.....	3,601

\* Audited up to week ending 18th December 1886.

## NORTHERN BENGAL STATE RAILWAY.

*Approximate Return of Traffic for the week ended 29th January 1887, on 249 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings inclusive steam-bent (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	18,669	15,270 0 0	2,65,118 0	31,220 0 0*	7,600 0 0	54,090 0 0	5,012	9,626	14,638
Or per mile of railway...	75	61 0 0	824 0	125 0 0	.....	186 0 0	20	39	59
For previous 4 weeks of half-year...	56,221	40,360 0 0	3,98,706 0	87,140 0 0	15,500 0 0	1,42,940 0 0	15,554	29,731	45,285
Total for 5 weeks...	74,890	55,670 0 0	6,03,824 0	1,18,360 0 0	23,100 0 0	1,77,030 0 0	21,566	39,367	60,923
COMPARISON.									
Total for corresponding week of previous year...	19,284	15,559 14 5	2,61,884 0	40,574 7 4	6,760 12 7	62,885 2 4	5,012	10,429	15,441
Per mile of railway corresponding week of previous year...	77	62 7 10	1,050 0	162 15 2	.....	225 7 0	20	42	62
Total to corresponding date of previous year...	82,073	60,079 3 2	8,62,030 0	1,85,514 4 4	28,427 6 4	2,42,420 13 10	20,764	49,513	70,277

\* Includes Rs. 5,000 Ballast Train receipts.

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Northern Bengal State Railway.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 30TH JANUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
249	62,885	253	249	54,090	217	249	19,69,279	174	249	22,04,460*	201	2,95,187	.....

\* Audited up to week ending 18th December 1886.

## TIRHOOT STATE RAILWAY.

*Approximate Return of Traffic for the week ending 29th January 1887, on 246 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 246 miles open ...	33,892	13,013 0 0	1,24,100 0	11,907 0 0	3,554 0 0	28,554 0 0	5,434	3,937	9,361
Or per mile of railway ...	138	53 0 0	545 0	48 13 0	2 4 0	104 14 0*	.....	.....	.....
For previous 3 weeks of half-year ...	101,507	38,151 0 0	4,36,310 0	40,084 0 0	11,218 0 0	89,173 0 0	16,757	17,477	32,234
Total for 4 weeks ...	135,399	41,164 0 0	5,70,410 0	52,051 0 0	14,732 0 0	1,18,007 0 0	22,201	19,374	41,575
COMPARISON.									
Total corresponding week of previous year on 226 miles open	29,600	10,715 2 7	1,31,525 0	13,217 5 0	2,623 6 2	26,555 13 9	3,080	4,125	7,205
Per mile of railway corresponding week of previous year	132	47 6 0	582 0	58 8 0	1 1 0	104 15 0*	.....	.....	.....
Total to corresponding date of previous year	124,999	45,505 15 0	5,86,581 10	59,433 0 0	16,909 1 2	1,06,923 0 2	16,748	16,674	32,922

\* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

## FINANCIAL YEAR.

*Approximate Statement of gross receipts of the Tirhoot State Railway.*

RECEIPTS FOR WEEK ENDING 30TH JANUARY 1886.			RECEIPTS FOR WEEK ENDING 29TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH JANUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 29TH JANUARY 1887.			Total increase in 1886-87.	Total decrease in 1886-87.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
226	26,550	118	246	28,554	116	246	10,64,425	4,710	246	12,79,923	5,203	2,15,498	.....

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for week ending 22nd January 1887 ...	Rs. A. P.
Corresponding week last year ...	4,658 0 0
Decrease ...	7,175 0 0
Receipts from 1st to 22nd January 1887...	2,517 0 0
From 1st to 23rd January 1886 ...	12,802 0 0
Decrease ...	16,154 0 0
	3,352 0 0
Miles open week ending 22nd January 1887 ...	Miles.
Corresponding week last year ...	51
Increase ...	50 1/4
Receipts per mile open week ending 22nd January 1887 ...	Rs. A. P.
Corresponding week last year ...	91 5 4
Decrease ...	141 6 3
	50 0 11

CHIEF OFFICE, DARJEELING, the 31st January 1887.

W. STEVENSON, Secretary, D. H. Ry.





# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, FEBRUARY 16, 1887.

## OFFICIAL PAPERS.

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### Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

*Saturday, the 12th February 1887.*

Present:

The HON. SIR RIVERS THOMPSON, K.C.S.I., Lieutenant-Governor, *President*.  
 The HON. G. C. PAUL, C.I.E., *Advocate-General*,  
 The HON. H. J. REYNOLDS, C.S.I.,  
 The HON. C. P. L. MACAULAY, C.I.E.,  
 The HON. T. T. ALLEN,  
 The HON. H. L. HARRISON,  
 The HON. A. W. CROFT, C.I.E.,  
 The HON. ABDUL JUBBAR,  
 The HON. G. IRVING,  
 The HON. D. CRUICKSHANK,  
 The HON. ANUNDO MOHUN BOSE,  
 The HON. KALI NATH MITTER,  
 and  
 The HON. DR. MOHENDRA LALL SIRCAR, C.I.E.

#### RURAL POLICE (CHOTA NAGPORE.)

The HON. MR. ALLEN moved that the Bill for the regulation of the Rural Police in the Chota Nagpore Division be referred to a Select Committee, consisting of the Hon. Messrs. Macaulay and Anundo Mohun Bose and the Mover, with instructions to report thereon in a fortnight.

The motion was put and agreed to.

The Council adjourned to Saturday, the 26th February 1887.

## DONATIONS IN COMMEMORATION OF THE JUBILEE.

GENERAL DEPARTMENT—EDUCATION.

*Calcutta, the 10th February 1887.*

## RESOLUTION.

## READ—

A letter, dated the 28th January, from Raja Sir Sourindra Mohan Tagore, Kt., C.I.E., in which he states that as Government has turned attention towards Sanskrit Tols, he offers the sum of Rs. 2,000, invested in four per cent. Government securities, for the establishment, out of the annual interest thereof, of two prizes to be given in the name of his late father, Baboo Hara Coomar Tagore, in commemoration of the Jubilee year of the reign of Her Majesty the Queen Empress.

The Lieutenant-Governor has great pleasure in accepting the liberal donation of Rs. 2,000 made by Raja Sir Sourindra Mohan Tagore in commemoration of the Jubilee year of the reign of Her Majesty the Queen Empress, for the encouragement of the study of Sanskrit and in tendering his thanks to Raja Sourindra Mohan Tagore for his public spirit and liberality in this cause. This offering is the first result of the recent publication in the *Calcutta Gazette* of a letter from Pundit Mohesh Chandra Nyayaratna, advocating an increase in the grants made for the support of Sanskrit Tols and of the connected correspondence.

ORDER.—Ordered that this Resolution be published in the *Calcutta Gazette*, and that a copy of it be forwarded to the Director of Public Instruction for information and communication to Raja Sir Sourindra Mohan Tagore, Kt., C.I.E.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secretary to the Govt. of Bengal.*

GENERAL DEPARTMENT—EDUCATION.

## RESOLUTION.

*Calcutta, the 11th February 1887.*

## READ—

An endorsement from the Director of Public Instruction, No. 916, dated 4th instant, with which is forwarded a copy of a letter from Khorshed Kudr Syed Iskunder Ali Mirza of Moorshedabad, offering, in commemoration of the Jubilee year of the reign of Her Majesty the Queen-Empress, a gold medal of the value of Rs. 100, superscribed "Victoria Jubilee Medal," to be awarded to the Mahomedan student who may stand first in the Entrance Examination of the Calcutta University for the year 1887.

The Lieutenant-Governor is pleased to accept the offer, and tenders his thanks to Khorshed Kudr Syed Iskunder Ali Mirza of Moorshedabad for his liberality.

ORDER.—Ordered that this Resolution be published in the *Calcutta Gazette*, and that a copy of it be forwarded to the Director of Public Instruction for information and communication to the donor.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secy. to the Government of Bengal.*

GENERAL DEPARTMENT—EDUCATION.

*Calcutta, the 15th February 1887.*

RESOLUTION.

READ—

A letter from the Commissioner of the Dacca Division, No. 243J, dated 8th instant, reporting, for the information of Government that Srimati Bishewshary Devi Choudhurani, Zemindar of Gouripore in Mymensingh, and Baboo Raghunath Das, Banker and Zemindar of Dacca, have made donations of Rs 1,000 and Rs. 1,500, respectively, in support of the Eden Female School at Dacca.

The Lieutenant-Governor has pleasure in accepting the liberal contributions mentioned above, and tenders his thanks to the donors.

ORDER.—Ordered that a copy of this Resolution be published in the *Calcutta Gazette*, and that a copy of it be forwarded to the Commissioner of Dacca for information and communication to the donors. Also that a copy of the Resolution be forwarded to the Director of Public Instruction for information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secy. to the Govt. of Bengal.*

GENERAL DEPARTMENT—EDUCATION.

*Calcutta, the 15th February 1887.*

RESOLUTION.

READ—

A letter from the Commissioner of the Dacca Division, No. 242J, dated 8th instant reporting, for the information of Government, that Baboo Maharaj Chandra and Baboo Ananda Chandra Rai Choudhuries of Moira in Mymensingh, have made a donation of Rs. 2,000 for the maintenance and improvement of the "Tangail Graham School" in the Mymensingh district.

The Lieutenant-Governor is pleased to accept the donation, and tenders his thanks to the donors.

ORDER.—Ordered that a copy of this Resolution be published in the *Calcutta Gazette*, and that a copy of it be forwarded to the Commissioner of Dacca for information and communication to the donors. Also that a copy of the Resolution be forwarded to the Director of Public Instruction for information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Offg. Secretary to the Govt. of Bengal.*



THE following proceedings of the Muhammadan Educational Endowments Committee are published for general information at the request of the Committee.

P. NOLAN,

*Offg. Secy. to the Govt. of Bengal.*

*Proceedings of a meeting of the Muhammadan Educational Endowments Committee, held on the 8th January 1887.*

PRESENT :

HON'BLE G. C. PAUL, C.I.E., *Advocate-General, President.*

AMEER ALI, ESQ.

NAWAB ABDUL LATIF, KHAN BAHADUR, C.I.E.

HON'BLE ABDUL JUBBAR.

NAWAB MEER MAHOMED ALI.

P. NOLAN, ESQ.

THE records of the proceedings of the last meeting were read and confirmed. It was resolved that they should be published.

The following questions, the considerations of which were postponed from the last meeting, were taken into consideration :—

14. Should the Committee be entrusted with the management of the Mohsin Fund, as suggested in our preliminary report?

15. From what source are the expenses of the Committee to be met?

Mr. Nolan explained that the revenue of the Mohsin Fund amounted to Rs. 1,12,072, of which Rs. 56,565 a year was devoted to the support of Muhammadan education in the Lower Provinces generally by maintaining Madrasahs, scholarships, and Moulvies attached to various English schools; also by paying the school fees of Muhammadans. The distribution was made by Government, on the advice of the Director of Public Instruction. If the control were transferred to the Committee, that body would have definite functions, and a ready means would be provided for meeting the contingent expenses, which would be of small amount—say under a thousand rupees a year.

Nawab Abdul Latif stated that the educational funds of this endowment were at first devoted to the maintenance of the Hooghly College, which was not a Muhammadan institution. Government had some years ago taken over the cost of the college, and since then had distributed the Mohsin foundation with great care and discretion. The Muhammadans were perfectly satisfied with the present management, and it was therefore undesirable to introduce a change. He had little faith in consultative bodies and committees, under which the majority ruled and no one else was heard. The members might be of the same class as an official, apparently relied on by the Collector of his district as a representative Muhammadan, whose recommendation that all *wakfs* should be abolished was before the Committee. The history of the Mohsin endowment showed the practical use of the old Regulation, since superseded, as under it the malversation of the Mutwali had been stopped, and a large revenue made available for purposes of general utility. What was wanted was to revive that Regulation. The local agents under it consulted the leading Muhammadans, and were in accord with public opinion. He thought the Commissioner or Collector as local agent should have powers to call small meetings of those interested, relations of the Mutwalis and others, to influence the conduct of the management of endowments. In this matter he spoke as the representative of a large class.

The President observed that if the Muhammadans were divided by differences on questions touching on religion, there might be a difficulty in their working together on a committee.

Mr. Ameer Ali said that there were no such differences. All Muhammadans were in favour of maintaining the Muhammadan law of *wakfs*, and he had always contended that *wakfs* were religious. They were all agreed as to the desirability of preventing malversation. He appreciated Government management; but having seen more of it than most men, he considered that there were objections to it, as it was practically carried out by the Board of Revenue and the Executive. He was therefore in favour of trusting the Mohsin funds to

a Committee. On the other hand, he in no way opposed the Nawab Abdul Latif's proposal as to Government officers in the interior acting with Muhammadans of influence.

Nawab Meer Mahomed explained that it was not in the case of the Mohsin funds proposed that the Central Committee should supersede any local committee, but merely that it should do work now done by Government without the advice of those concerned.

The Hon'ble Abdul Jubbar said that, in the case of the Mohsin fund, we should let well alone. He had no faith in associations or committees.

After some further discussion as to the practicability of making other endowments contribute to the expenses of the Committee, it was resolved (Nawab Abdul Latif and the Hon'ble Abdul Jubbar dissenting) that the management of the Mohsin educational funds should be entrusted to the Central Committee, without interference with the Committee now managing the religious funds of that institution, and that the cost of the Committee might be defrayed from the Mohsin educational funds.

The President's proposal for the conferring on civil courts of power to separate the educational from the religious portion of mixed endowments, on the principle of assigning for education all the surplus, then came under consideration.

Mr. Nolan pointed out that the proposal was similar to one made by Mr. Ameer Ali at their meeting of the 2nd April. He had then, at the request of the President, undertaken to formulate in a written representation the views on the subject of the gentlemen with whom he acted. Such a statement, coming from a representative source—indeed from those whose suggestions were the origin of the Committee—would form the best basis for discussion.

Mr. Ameer Ali undertook to supply such a statement at the next meeting, and the consideration of the subject was adjourned. The President observed that Nawab Abdul Latif had also expressed distinct views, and requested him to reduce them to writing. To this the Nawab assented. Nawab Meer Mahomed observed that he hoped the question would be considered of the disposal of surplus funds where all the specified objects of the endowment had been fulfilled.

The Hon'ble Abdul Jubbar presented copies of his opinions as to the meaning of the word *talil-ul ilm* to the effect that it designated religious students, and moved that the opinions of the most pious and learned Muhammadans be taken on the question what interpretation should be put on that word when used in deeds of endowment by the Muhammadans of Bengal.

Mr. Ameer Ali did not object to an enquiry as to the meaning of the word generally—it spoke for itself, being simply the compound-seeker-of-knowledge. But he strongly deprecated an enquiry as to what significance it bore in legal documents, the construction of which was a question for the courts.

The Hon'ble Abdul Jubbar said it meant a seeker of *ilm*, that is, knowledge of divine subjects. Mr. Ameer Ali observed that the Caliph Haroun Alraschid, in pursuit of *ilm*, had sent for Aristotle and other Greek books, and even made war to obtain them.

Nawab Abdul Latif thought that the enquiry should be made, as he and another member of the Committee wished for it, and had a right to collect such evidence as they considered relevant to their case. Mr. Nolan concurred.

The President thought that, as a legal officer appointed to preside, he had a right to object to a question which was perplexing, embarrassing, and confusing.

It was resolved that the question should not be put.

P. NOLAN,

Secretary, Muhammadan Educational  
Endowments Committee.

*Proceedings of the Muhammadan Educational Endowments Committee, at a meeting held on the 7th February 1887.*

**Present:**

THE HON'BLE G. C. PAUL, C.I.E., *Advocate-General, President.*

NAWAB ABDUL LATIF KHAN BAHADUR, C.I.E.

„ MEER MAHOMED.

HON'BLE ABDUL JUBBAR.

AMEER ALI, ESQ.

P. NOLAN, ESQ..

A memorandum of the Committee of the Central National Muhammadan Association, and a reply by the Hon'ble Abdul Jubbar, dated the 7th February 1887, were read. Copies of these papers are appended to the proceedings.

The President observed that the Hon'ble Abdul Jubbar in his note drew a distinction between religious and secular education. This was not known to the Regulations, which, in dealing with endowments, made the distinction between religious objects and secular, apparently including education of whatever kind under the latter head. Education should be dealt with as one subject, and the religious element could not be excluded.

The Hon'ble Abdul Jubbar quoted in reply a *hadis* or tradition from Meshkat, which declared that *ilm*, or knowledge, was of three kinds—the *koran*, tradition, and the interpretation of these, all the rest being unnecessary.

Mr. Ameer Ali moved that the six recommendations in the memorandum should be considered one by one.

Nawab Abdul Latif proposed, as an amendment, that a copy of the memorandum be sent to the Muhammadan Literary Association for the favour of an expression of opinion. He was not as yet prepared to pronounce on these important proposals, and could take no part in any discussion which might take place as to them.

Mr. Nolan said that by adopting the Nawab's proposal, Mr. Ameer Ali would gain time to elaborate the plan of the Central National Muhammadan Association, which was at present a mere outline. For instance, it was proposed "to simplify the procedure at present existing as to the institution of suits," no details being given as to how this was to be done. But what simplification of procedure would be advantageous in endowment suits that would not apply to all litigation? This should be clearly explained. It was also proposed to appoint a special officer in each district to institute and conduct endowment suits; but was not this the business of the Government Pleader? The third suggestion was that "educational funds" should be under the control of a Central Committee; was this to apply to such endowments as that of Aktarannissa Khatoon, by the *tahleutnamahs* of which it is provided that "the students shall receive only religious education in Muhammadanism?" The fourth proposal was to give the Civil Courts "the discretion vested in the Kazi under the Muhammadan law." What was this discretion? Section 539 of the Civil Procedure seemed to give the Civil Courts absolute power in regulating the execution of the pious founder's wishes, and a Kazi could have no more. Then it was proposed to create District Committees to advise and "to exercise a general supervision:" it would be well to state definitely the powers of these bodies. It needs no law to authorise the proffering of good advice, of which we all get enough, and a power of general supervision seems a vague phrase. The last proposal imposed on the trustees of religious as well as on those of secular endowments the obligation to render annual accounts to a Central Committee. He had at one time to receive and examine the accounts of the four or five endowments under the Board of Revenue, and it was no easy task. Religious endowments existed in hundreds. Was the Association prepared to recommend the establishment of a large central office for their supervision, and would



the Advocate-General consent to preside over a Committee having such laborious functions?

The President observed that a more summary procedure would diminish the cost and delay of this form of litigation. The employment of a special officer would assist the Government Pleader of the district. The President would give the Central Committee control over all endowment funds assigned for education, whether the instruction given was or was not religious. The Committee's power should, however, be exercised in accordance with the testator's expressed wishes: thus funds left for religious education should not be appropriated to secular education. The right of general supervision to be conferred on District Committees would give the members the right to make local inspections, and similar provisions had been found effective in other cases. As to the labours of the Central Committee, he had no objection to preside over such a body, and did not doubt that the necessary establishment would be provided.

Mr. Ameer Ali expressed his general agreement with the President.

The motion of Nawab Abdul Latif was then agreed to.

P. NOLAN,

*Secretary.*

#### MEMORANDUM.

THE Committee of the Central National Muhammadan Association, in submitting their proposals to the Muhammadan Endowment Committee, desire, in the first place, to explain exactly the objects the Association has in view in seeking the legislative and administrative assistance of Government for the protection and preservation of Muhammadan endowments.

2. The Endowment Committee was appointed at the instance, and upon the motion, of the Central National Muhammadan Association. Perceiving the ruin which had overtaken Muhammadan endowments within the last half century, and appreciating the gravity of the causes which interfered with the progress of the Muhammadans, the Association had urged upon the Government the expediency of adopting effective measures to enable the Muhammadan community to preserve their existing *wakfs*, and to utilise such as contained provisions for the support of education towards the advancement of their welfare and progress. The Government was pleased to accept this suggestion, and the enquiry which has been instituted by the Endowment Committee has conclusively established the fact that there still exists a large number of endowments in this Province for various pious and charitable purposes; and that in very few instances the proceeds of the *wakf* are duly applied to the objects for which they were created. It is admitted on all hands that within the last few years a great many *wakf* properties, owing to the neglect or misconduct of the Trustees, have been sold in execution of decrees as private heritable properties. And it is conceded by those who were at first opposed to the objects of the enquiry that a system of supervision and control on the part of Government, on the lines of Regulation XIX of 1810, would be extremely beneficial. The admission involved in this concession justifies completely the action of the Association in urging Government interference for the protection of Muhammadan endowments. It is to be regretted that the objects of the Association in making this appeal to Government were misrepresented in certain quarters. It was suggested that the Association was anxious to divert the Muhammadan endowments to objects alien to the wishes of the donors. The Association thinks it necessary therefore to state most emphatically that the sole object it has in view is the preservation of Muhammadan endowments, and the application of such funds as are available for the advancement of Muhammadan education to their legitimate purpose.

3. The Association has never advocated the exclusive study of the English language among the Muhammadans; it has always insisted upon the study of Arabic and Persian by Muhammadans, and the action it has taken from time to time shows conclusively that its endeavour has been to promote Muhammadan education upon a traditional basis. But it cannot ignore the exigencies of the present situation, or forget that, if the Muhammadans are to compete on

equal terms with the Hindus or other communities, they must study the language of the rulers of the land in the same way, and to the same extent, as the other subjects of Her Majesty. The enquiry instituted by the Endowment Committee has amply shown that there are many endowments in this Province the *wakfnamas* of which contain provisions for the support of madrassas and students; and that, in almost every case, the support accorded by the trustees is merely nominal. The funds which ought to be applied in support of students are, in the majority of instances, misappropriated. Considering how the general poverty of the Muhammadans has stood in the way of their educational progress, this Association believes that the funds available from these sources would prove of appreciable benefit to the Muhammadan student class. It has been contended that the provisions in the *wakfnamas* relating to the support of the students (*tālib-ul-ilm*) must be construed in a very restricted sense as referring only to the support of such students as devote themselves to the study of Muhammadan divinity. The Association regrets it cannot admit this contention to be correct. There is no ground for the proposition in question, and it is contradicted by the experience of Muhammadan foundations in other countries, where the application of the funds has been widened and liberalised with the advance of times and the altered circumstances of the age. With reference to this point, the opinion of Moulāna Abool Ebya Mahomed Naim of Lucknow, a distinguished Sunni Doctor of Muhammadan divinity, given by him in his evidence in the Sasseram Endowment case, is of considerable value. He says, "*tulbas* are those who acquire secular knowledge;" and again "it is proper to learn the science of the ruling monarch if such knowledge does not militate against one's religion." It is admitted that the word *tālib-ul-ilm* is generic and means a student (a seeker of knowledge) generally. From the earliest times, not only in India, but in Muhammadan countries, the study of every branch of learning and science has been promoted and encouraged by sovereigns and chiefs and the well-to-do people, and the mosques and madrassas have formed the centres of Muhammadan education. From Mansur Dawāniki, Harūn and Māmūn downwards, there has been one continuous succession of supporters of foreign learning. At Damascus, at Bagdad, Cordova, Cairo, Samarcund, &c., the study of Greek science and Greek learning was always encouraged. And at this moment, in the madrassa attached to the mosque of Al-Azharia, the centre of Sunni orthodoxy, European languages are studied. It has never been contended that the study of Greek under Māmūn was sinful, or that the study of French in the madrassas of Constantinople and Cairo is sinful. The idea that the study of English is sinful and must be regarded as alien to the wishes of the donors is opposed to all the teachings of history and of the Prophet.

4. That the word *tālib-ul-ilm* means a student or seeker of knowledge in all its branches, and is not restricted to a student of divinity alone, will be apparent from the following passages occurring in the Koran:—

- |                            |  |
|----------------------------|--|
| * علم آدم الاسماء كلها     | "He imparted to Adam knowledge of the name of all things.  |
| * واذ علمتك الكتاب والحكمة | "And when I taught thee the Book (Koran) and the science." |
| * يؤتي الحكمة من يشاء      | "He giveth knowledge unto whom he pleaseth."               |

In the Hadis (traditional sayings of the Prophet), there occur the following:—

- |  |  |
|--|--|
| * طلب العلم فريضة                      | "Seeking of knowledge is obligatory."                            |
| * اطلبوا العلم ولو كان بالصين          | "Seek knowledge even if it be in China."                         |
| * علموا اصبهانكم الرمي                 | "Instruct your children in the knowledge of archery."            |
| * العلم ايمان علم الابدان وعلم الاديان | "Science is of two kinds, one physical and the other religious." |

5. Besides these there are numerous passages in the Koran and the *Hadis* in which the words *ilm*, *tālim* and *taallum* are used, indicating clearly that in the term *ilm* is included every branch of knowledge or learning, whether intellectual



or religious, theoretical or practical : as, for instance, the knowledge of archery, the knowledge of anatomy, the knowledge of names, and the knowledge of sciences. In the madrassas founded by the ancient Muhammadan sovereigns and nobles, mentioned in the Prolegomena of Ibn Khaldûn, and in the work of Ibn-i-Khallican and the *Husan-ul-Mahazara*, intellectual instruction was imparted in Arabic as well as Syrian, Greek, and the Persian languages. And in the madrassas of Persia, Khorasan, Turkistan, and Hindustan the languages of fire-worshippers, manichæans, Monguls and Hindus were, and are still being, taught. The endowments bestowed upon those madrassas have always been applied to the benefit of the *tâlib-ul-ilm* in general. In the Prolegomena of the *Kashf-uz zanoon* (by Haji Khalifa) there occurs the following remarkable passage :—

المنظر الاول في العلوم الاسلامية  
وهو على صنفين طبعي وهي  
العلوم الحكمة ونقلية ياخذة  
عن وضعه وهي العلوم العقلية  
لا مجال فيها للعقل \*

“Chapter I.—Regarding Islamic knowledge—  
“Islamic knowledge is of two kinds, one intellectual, namely, the knowledge of sciences, and the other traditional, namely, that which has descended in succession, and into which human reason has no access.”

And in the seventh chapter of the same book is written thus—

وايضا ان يستبين بشي من  
العلوم تقليد الماسمعة من  
الجهلة بل يجب ان ياخذ من  
كل حظا ولا يكن ممن يذم  
العلم و يعدوه لجهلة مثل  
ذمهم المنطق والعلوم الحكمة  
على الاطلاق من غير معرفة  
القدر المذموم والممدوح  
منها \*

“The seeker of knowledge should always remain mindful of this, that he does not depreciate any knowledge, being induced to do so by the ignorant. He should drink a little from the fountain of every kind of knowledge, and he should not be like one of those who, from their ignorance, speak ill of the sciences, and are their enemies, as, for instance, an ignorant person not knowing how much of what knowledge is good, and how much bad, speaks ill of logic and the sciences universally.”

6. Nor does there exist in the Muhammadan system any such distinction as has been recognised by the British Courts of Justice in this country, especially since the passing of Act XX of 1863 between secular and religious endowments. Every act, the object of which is to do good to others, is regarded as a religious act, and consequently every endowment or *wakf* created for a charitable or pious purpose stands in the same category, and is governed by the same rules as a purely religious *wakf*. A madrassa in which foreign learning is taught is as much a *wakf* under the Muhammadan Law as mosque. In this connection, the Association would mention that the *cypres* doctrine is carried to the utmost limit in the Muhammadan system. If one makes an appropriation for charity generally, without any specification of the purpose,—

“It will be applied on the poor and all purposes by which an approach (to God) might be made, like conferring benefit on students, building mosques and schools and bridges and *mushâhid*, the assistance of pilgrims, supplying shrouds for the dead, and it is allowable to spend for the general benefit of Mussulmans.”

In the *Jawâhir*, which is a Shiah work, the principle is stated thus—

“If a person constitute a *wakf* for a *Maslahat*, such as a masjid, a bridge, or some object of a similar character, and all traces of its use and effect have totally vanished, in such a case the income of the *wakf* property would be expended on good purposes generally. Preference, however would be given to an object approaching in character to the object of the original dedication.”



And this view is repeated in another place,—

“If the person were to make a dedication generally for charitable purposes, then without any difference of opinion the *wakf* property will be applied for the benefit of the poor and indigent, and for all pious acts and objects, which may be the means of approaching the deity. *Birr*, or charity, is a word which comprehends all good and pious actions (*khair*), such as the help of the poor, the assistance of the weak, the improvement of the condition of the Mussulmans, the performance of *Hajj*, education and support of students, &c.”

7. The same doctrine prevails in the Sunni schools. Mere vagueness or uncertainty does not lead to the failure of a *wakf*, for in such a case the law itself supplies the defect by declaring that the trust should be in favour of such objects as approach nearest in character to the intended object of the *wakf*, or, even when that is not expressed, to the support of the poor and needy. In the absence of explicit directions on the part of the *wakif*, the hakim has the power of framing a scheme by himself, or in consultation with the beneficiaries for the administration of the *wakf*.

8. The Kâzi, as the representative of the sovereign in his judicial capacity, is the general curator of all *wakfs*, whether public or private. In Turkey, however, endowments which are in their nature public, or the benefits of which are for the public generally, are under the direction, control and supervision of a special officer appointed by the Government, who is called the *Nazir-i-Awakâf*. Upon their accession to sovereign power, the British for some time allowed the endowments, which owed their origin principally to the bounty of the former rulers and chiefs, to remain in a state of disorder; but the necessity of a law for the preservation of Hindu and Muhammadan trusts soon presented itself, and Regulation XI of 1810 was the result.

9. In 1863, however, Government divested itself by Act XX of that year of all connection with the religious endowments of both Hindus and Muhammadans, and retained the control only of such institutions as were secular in their character.

10. The preamble and the earlier sections of this Act indicate conclusively its scope, and there can hardly be any doubt that its operation was confined to such trusts or endowments as were transferred to trustees under sections 4 to 7 of the Act. And so it was expressly decided in the case of *Delroos Banoo Begum* versus *Nawab Syed Asghur Ally Khan*.

11. The principle laid down in *Delroos Banoo Begum* versus *Nawab Syed Asghur Ally*, with reference to the nature and scope of Act XX of 1863, has been practically overruled by the decision in *Jan Ally* versus *Ram Nauth Mundul*. In this case it has been held, in effect, that every mosque, Hindu temple, college, or religious institution, for the support of which land had been granted by the preceding Governments, or by individuals, comes within the purview of the Act, and that consequently no suit can be instituted with reference to any of these institutions without leave having been first obtained under section 18. This ruling apparently was adopted in another case decided by the Calcutta High Court. The Allahabad High Court has dissented from the view entertained by the Calcutta High Court. It has held that every

*Zafaryab Ali* versus *Bukhtwar Sing*.

I. L. 5 All., p. 497.

of Act XIV of 1882 (the Civil Procedure Code), refers to—

“trusts created for public, charitable or religious purposes” exclusively. To enable a beneficiary to proceed under the provisions of this section applicable to a *wakf*, it would be necessary to show that the trust is for a public, charitable or religious purpose; in other words, that it was vested in the public or that the beneficiaries are selected from the general body of the public.

12. Owing to the conflicting character of the decisions existing on the subject, and the difficulty of procedure, both under Act XX of 1863 and the Civil Procedure Code, no proper check or control can be exercised at present over the numerous endowments which have survived the misconduct of the trustees and the avarice of money-lenders.

13. The Association desires in conclusion to offer the following suggestions as to the proposals to be submitted by the Endowment Committee to Government:—

I. That the Legislature be moved to simplify the procedure at present existing as to the institution of suits relating to the administration of trusts, and that an officer be appointed in each district to institute and conduct such suits when directed by Government. The Association would suggest, with a view to save any extra expense, that a Muhammadan Deputy Magistrate or executive officer of sufficient experience may be invested with such office.

II. That a Central Committee, consisting of a few Muhammadans, with the Advocate-General of Bengal as its President, be appointed to exercise a general supervision over Muhammadan endowments, and to see that the funds are properly applied. This Committee should receive reports from the District Committees, and in case of breach of trust and misconduct, or misapplication of funds on the part of the trustees, may move Government, if necessary, to direct the authorised officer to institute a suit on that behalf.

III. That in case of educational funds, the Central Committee should have the power of directing how they should be applied.

IV. That the Civil Court be authorised by the Legislature, when the funds are not specifically apportioned in any *wakfnamah*, to exercise the discretion vested in the Kazi under the Muhammadan Law, and apportion the funds in accordance with the requirements of each special case.

V. That District Committees be appointed consisting of a few Muhammadans, with the Collector as President, to advise the mutwallis, and to exercise a general supervision over the *wakfs*. Such supervision should not be inquisitorial.

VI. That the trustees of the endowments, religious and secular, should furnish to the Central Committee yearly accounts of receipts and disbursements.

14. The Association deprecates the revival of Regulation XIX of 1810 in respect of religious trusts. In the opinion of the Association, it is inexpedient, in view of the existing circumstances of the country, to vest executive officers of Government with the plenary powers which the Regulation gave them. The Association ventures to think that the present suggestions would protect and preserve the Muhammadan *wakfs* without any unnecessary interference with their honest management.

AMEER ALI, *Secretary*.  
BUDRUDDIN HAIDAR, *Assistant Secretary*.  
HAJEE NOOR MOHOMED.  
SHAIK MAHMOOD JILANI.  
MIRZA MOHOMED KHALIL SHIRAZI.  
ABUL HASSAN KHAN.

MOHOMED FURUKH SHAH.  
MEER MAHOMED ALLY.  
SYUD AMEER HOSSEIN.  
KABIRUDDIN AHMAD.  
AHMUD.  
DEEN MOHAMMUD.  
GOLAM SURWER.  
SIRAJUL ISLAM, *Assistant Secretary*.  
ZUHIRUDDIN AHMUD.  
H. A. DUGMAN.



## NOTE BY THE HON'BLE ABDUL JUBBAR.

THIS Committee has been appointed in accordance with the orders of the Government of India, passed on a memorial submitted by the Central National Muhammadan Association, in which, among other things, the necessity of preserving and utilizing the existing Muhammadan endowments for educational purposes was urged upon the attention of that Government.

The Committee, as its name indicates, has to deal with educational endowments, and to report what action, executive or legislative, may, in their opinion, be necessary for preventing misappropriation of such endowments. From passages in the Resolutions, both of the Government of India and of the Bengal Government, it is evident that the Committee's enquiry should not extend to religious endowments, but should be confined to educational endowments. Therefore, the first thing which the Committee has to do is to eliminate religious endowments from the number of those reported to be in existence in Bengal. This, I am constrained to say, is not an easy task for them. A Muhammadan endowment or *wakf* is a legacy for pious uses, and is intended for the spiritual benefit of the donor.

It is true that in some deeds of endowment is to be found a provision for the maintenance of *Talibul, ilems*, but therein the word means students of divinity, and not seekers of secular knowledge, such as I admit is now-a-days required for the amelioration of the condition in life of the Indian Mussulmans. Much stress is laid upon the literal signification of the word; but no Doctor of Muhammadan law, when called upon to expound it in reference to its use in a deed of endowment, can, I am sure, conscientiously interpret it in the way in which it will be acceptable to the more worldly-minded individuals of the present generation. We often see readers of Quorans and Fekha in mosques, khankas, mukhtabs and madrassas founded by pious Mussulmans, and it is the maintenance of such readers or learners that the founders intended.

The memorial asked for, and the Government orders direct an enquiry into, Muhammadan educational endowments; but both are silent as to the character of the education contemplated by the donors.

Every well-wisher of the Muhammadan community will be indebted to the Committee for any measure which they may suggest for the protection of all Muhammadan endowments from misappropriation; but the Muhammadan public will loudly complain should funds set apart by Muhammadan donors for religious instructions be wholly or partly applied to secular education. Most of the endowments brought to the notice of the Committee bear dates prior to and at the time of the Muhammadans, whose religious scruples have within the space of 40 years reduced many respectable Muhammadan families in Bengal to the deplorable condition in which we now see them, and which, I am thankful to say, has attracted the attention of the authorities. It will therefore be fallacious to argue that it will not be diverting to purposes alien to the wishes of the donors if we devote endowed funds to other than religious training.

Happily for the Muhammadans that they have now come to see the mistakes of their predecessors and the advantages of a liberal English education, but it would be a clear misappropriation of endowments if students of English were supported by funds intended for the use of those devoted to the study of religion. I do not wish to discuss what is meant by "*ilem*" or knowledge in Moslem theology.\* The subject has been discussed threadbare by the learned doctors in every country to which the faith of Islam has extended. The works of those Muhammadan "*ulemas*" who had devoted their whole lives to religion are sufficient authority for the guidance of the votaries of Islam in the affairs of the next world, and they stand in no need of further comments on the Quoran and the Ahadis. The time has not come, and I hope will never come, when the Muhammadans will in religious matters be guided by the opinions of any Association or Society, the main object of which is or may be to secure political advantages.

We are all alive to the advantages of an English education, and we ought to make every lawful effort to obtain it; but in order to secure what we most desire, and what is essential to our welfare in the world, we cannot do a gross injustice to the souls of the departed. In order to qualify ourselves for seats in the High Court, for appointments in the Judicial and Executive Services, and for Local Self-Government, we ought not to rob the funds purposely provided for religious instructions. Our ancestors, with whose endowments the Committee is concerned, and whose intentions the Committee is now to explain, were firm and honest in their religious convictions and had no idea of what is now called secular education.

With the advance of what is called civilization, religion has shown symptoms of decadence, and nothing seems to require so much support as religion. No true friends of Islam should be a party to any measure which will deprive the Muhammadans, wholly or partially, of the means available for religious instructions. Secular education, which has its apparent advantages, does not require much special encouragement; but in all ages, and among all nations, funds have often been provided for the dissemination of religious education. Colleges and schools have been opened throughout the country for imparting secular

\* The following quotation will show what is meant by *ilem* :—

قال رسول الله صلى الله عليه وسلم العلم ثلاثة أئمة : أحكمة أو سنة قائمة أو فريضة عادلة ومكان سوى ذلك فهو فضل رواه أبو داود وابن ماجه \*

The prophet (the blessing and peace of God be with him) said :—"*Ilm* or knowledge is of three kinds, viz., the established text or verses of the Quoran; the correct traditions; and the lawful interpretation of the Quoran and the traditions, and that whatever is beyond these three is not necessary." Related by Abu Daud and Ibu Majah.



education, but religious instructions are given only in mosques, khankas, and madrassas mostly supported by endowments. If the attempt to withdraw, by means of legislation, partly or wholly, any funds bequeathed by pious Mussulmans for religious education be successful, the time will not be distant when no one will be found to perform religious ceremonies, much less to give religious instructions, and when the dead will be buried without a funeral service.

I do not deny that there is evidence that since the repeal of Regulation XIX of 1810 endowments have, in some instances, suffered from mismanagement or misappropriation. That Regulation, which vested in the Board of Revenue and Board of Commissioners the general superintendence of all lands granted for the support of mosques and colleges, and for other pious and beneficial purposes, was passed to enable Government to see that all such endowments were applied according to the real intent and will of the grantors. As long as the rules embodied in that Regulation were in operation, there was proper check upon the proceedings of managers and trustees in immediate charge of endowments, and instances of misappropriations were rare. A reference to section 1 of the Regulation would show that it was an important duty of every Government to provide that all endowments were applied according to the real intent and will of the grantor, and I am not aware of the reasons which in 1853 led Government to divest itself of that duty. Act XX of that year gave to individuals interested in a mosque, temple or religious establishments a right of suing a manager or trustee of such mosque, temple or religious establishment, but the difficulties of instituting and establishing a civil suit against one in power are so great that private individuals seldom think of exercising that right. On the other hand, if the Board and the District Officers still had that power of supervision which Regulation XIX of 1810 gave them, they would be able to remedy at once any evil which might arise from the misconduct of managers and trustees of endowed properties. I am therefore strongly in favour of the revival of that Regulation which was in force for upwards of half a century, and against which no objection was ever raised by the people. As regards the proposals which have emanated from one of our colleagues for the formation of Central and Branch Committees, I beg to say that I quite disapprove of them. The Muhammadan public will have more confidence in the European officers than in the *soi-disant* leaders of their own community, who are supposed to be impatient to see a radical change in the present state of things. No friends and neighbours of Muhammadan donors will ever consent to any interference with the arrangements which are or may be consistent with the wishes of the latter. For instance, the transfer of any funds from one place to another will be prejudicial to the mosque, khanka or madrassa maintained or intended to be maintained by an endowment. On the principle that charity begins at home, every donor intended that his immediate neighbour should be benefited by any property which he might leave for religious or charitable purposes.

The 7th February 1887.

ABDUL JUBBAR.

## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government during the week ending the 12th February 1887.

No.	District and date of return.	Rainfall at Sudder station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BENGAL.</b>			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan, Feb. 12, '87	Nil	Weather—warm in first part of week, but now again cold. Prospects of winter crops continue good. Price of common rice 21½ to 23 seers per rupee. Public health good.
	2 Bankoora, „ 12 „	Nil	Weather—bright and cold. <i>Rubbee</i> crops everywhere prospering. Prospects generally good. Pressing of sugarcane going on in places in Bishenpore sub-division. Public health good.
	3 Beerbhoom, „ 12 „	Nil	Weather—cold. Sugarcane is being cut. Prospects of <i>rubbee</i> crops good. Price of rice slightly rising. A few cases of cholera reported from the interior.
	4 Midnapore, „ 12 „	Nil	Weather—cold for time of year. Such crops as there are on the ground promise well. Public health good, but some sporadic cholera in Tumlook and Contai sub-divisions.
	5 Hooghly, „ 12 „	Nil	Weather—cold and seasonable. Rice all harvested. <i>Rubbee</i> crops good. Public health good.
	Howrah, „ 14 „	Nil	Unseasonable heat at beginning of week followed by considerable fall in temperature. <i>Amun</i> harvest finished with very good outturn. Outturn of sugarcane good. <i>Boro</i> rice planted out.
<i>Central Districts.</i>			
PRESIDENCY DIVN.	6 24-Pergha., Feb. 15, '87	Nil	Weather—cool and fine. Harvesting of winter rice over; outturn satisfactory. Other cold-weather crops promise well. Public health generally good, though a few cases of cholera still reported.
	7 Nudda, „ 12 „	Nil	Weather—dry, clear and cold. North-east winds prevalent. Prospects of <i>rubbee</i> crops good. Public health good.
	8 Kheolua, „ 12 „	Nil	Weather—warm for the season, but last few days cold. Harvesting of late rice almost complete; outturn satisfactory. Public health good.
	9 Jessore, „ 12 „	Nil	Weather—cold and pleasant. Harvesting of <i>amun</i> completed with good outturn. Winter crops doing fairly well, but tobacco is poor. Public health good.
	10 Moorsshedabad „ 12 „	Nil	Weather—very cold and seasonable. Winter crops doing well and promising. Outturn of <i>amun</i> in Lalbagh reported excellent. Public health good.
RAJSHAHY DIVN.	11 Dinagepore, Feb. 11, '87	Nil	Weather—cool. State and prospects of <i>rubbee</i> crops good. Rice 23 to 30 seers per rupee. Public health good. Cattle-disease ( <i>basanta</i> ) reported from Hemtabad and Pirgunge.
	12 Rajshahye, „ 12 „	Nil	Weather—colder during the week. Prospects of <i>choitali</i> crops fair. Sugarcane is being planted. New leaves in ganja may reduce the outturn. Public health generally good.
	13 Rungpore, „ 12 „	Nil	Weather—very cold. Land is being ploughed for <i>aus</i> and jute. Pulses and other standing minor crops doing fairly well. Public health much improved.
	14 Bogra, „ 12 „	Nil	Weather—seasonable, but very cold. Cold-weather crops doing well. Price of rice steady. Public health fair.
	15 Pabna, „ 12 „	Nil	Weather—cool and pleasant. Winter crops doing well. Public health good.
	16 Darjeeling, „ 12 „	Nil	Weather—cold, but bright. Crops progressing well.
	17 Julpigoree, „ 12 „	Nil	Weather—cold and frosty. Prospects of tobacco, sugarcane and mustard good. Rice sells at prices varying from 32 seers per rupee at Rajgunge to 21 seers at Patgram. Cases of fever reported from Mynagoree and Kyranty; otherwise public health good.
<i>Eastern Districts.</i>			
DACCA DIVISION.	18 Dacca, Feb. 12, '87	Nil	Weather—cold and fine. Pulses and mustard are being gathered. Lands are being ploughed for early rice and jute. Prospects of crops continue good. Public health generally good. Cholera on the decline.
	19 Furreedpore, „ 12 „	Nil	Weather—cold with north and east winds. <i>Rubbee</i> doing well. Some of it is being harvested. General health good.
	20 Backergunge, „ 11 „	Nil	Weather—seasonable. Harvesting of <i>amun</i> almost completed. <i>Rubbee</i> crops promise well. Fever continues to prevail. Cholera reported from some stations.
	21 Mymensingh, „ 11 „	Nil	Weather—cold. Prospects of crops good.
	22 Chittagong, Feb. 15 „	Nil.	Weather—cold. Winter crops doing well. Prices stationary. Some scattered cases of cholera and cat-le-po. Public health generally good.
CHITTAGONG DIVN.	23 Noakholly „ 11 „	0.40	Weather—clear and cold. Betelnut palms flowering. Rain has done good to winter crops. Cocoanuts promise fair outturn. Cultivation for <i>aus</i> in progress. Cholera diminishing in severity in Fenny sub-division. A few cases also reported from other thanas.
	24 Tipperah „ 10 „	Nil	Weather—seasonable and cold. State and prospects of crops good. Sporadic cholera all over the district.
	25 Chittagong Hill Tracts „ 8 „	Nil	Weather—becoming warmer daily. Cloudy since last three days. Gathering of cotton over. Sugarcane is being pressed. Tobacco and other crops doing well. Public health generally good.
	26 Hill Tipperah „ 9 „	Nil	Weather—cold. Mustard is still being gathered. Sugarcane is being cut. Chillies doing well. Public health good.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
<b>BEHAR.</b>			
PACUR DIV.	26 Patna, Feb. 12, '87	Nil	Weather—cool and clear. Prospects of <i>rubbee</i> continue fair. Poppy has been greatly damaged. <i>Cheena</i> being sown. Public health generally good.
	27 Gya, " 12 "	Nil	Weather—cold and clear. <i>Rubbee</i> generally very good. Wheat not so good as the rest. Poppy late and somewhat damaged by grubs. Public health good.
	28 Shahabad, " 12 "	Nil	Weather—bright and seasonable. Prospects of crops fair, but wheat and peas have slightly suffered in Sasseram from cold and blight. Poppy in flower; but the crop is backward and not looking vigorous. Prices rising slightly. Public health fair.
	29 Durbhanga, " 12 "	Nil	West wind prevailing. Prospects of <i>rubbee</i> continue favourable. Wheat and barley in ear. Mustard is being harvested. Poppy doing well. Prices rising. Public health generally good.
	30 Muzafferpore, " 12 "	Nil	Weather—cold with west wind. <i>Rubbee</i> crops coming into ear and prospects satisfactory. Poppy doing well; plants are now well advanced, and in several fields are in flower and bud. Public health generally good.
	31 Saran, " 12 "	Nil	Weather—seasonable; mornings rather chilly for the time. Prospects of crops continue excellent.
BHAGULPUR DIV.	32 Champaran, " 12 "	Nil	Weather—cool with west wind. Prospects of <i>rubbee</i> continue favourable. Poppy plants flowering. Indigo sowing commenced. Prices stationary. Public health fair.
	33 Monguvt, Feb. 12 "	Nil	Weather—very cold with west wind. Prospects of <i>rubbee</i> crops continue good. Sporadic cases of small-pox continue to be reported from Begu-erai; otherwise public health good. Prices stationary.
	34 Bhagulpore, " 12 "	Nil	Weather—unusually cold with strong west wind. Prospects of <i>rubbee</i> crops generally favourable. Wheat affected with blight in places. Public health good.
	35 Purneah, " 12 "	Nil	Weather—very cold since three or four days. <i>Rubbee</i> crops doing well.
	36 Maldah, " 12 "	Nil	Weather—cool. Prospects of winter crops continue favourable. Rice selling at 24 seers per rupee. General health good.
ORISSA.	37 Southal Perga, " 12 "	Nil	Increased cold since the last three days. Sugarcane is being crushed. <i>Rubbee</i> crops doing well everywhere. General health good.
<b>ORISSA.</b>			
ORISSA DIV.	38 Cuttack, Feb. 11 "	Nil	Weather—seasonable. <i>Dalua</i> is being transplanted and growing well. Prospects of wheat and tobacco good. Cholera in places in the interior; public health otherwise good.
	39 Pooree, " 10 "	Nil	Weather—seasonable, with occasional clouds. Late <i>sarad</i> is being threshed. <i>Dalua</i> thriving. <i>Rubbee</i> is being harvested. Mango in flower. Common rice 25 seers 7 chittacks per rupee in Sudder sub-division and 25 seers 8 chittacks in Khurda sub-division. Cases of small-pox and foot-and-mouth disease among cattle reported.
	40 Balasore, " 11 "	Nil	Weather—clear and cold. Pressing of sugarcane still going on. Prospects of spring crops promising. Cotton is being sown in places. A few cases of fever reported; public health otherwise good.
<b>CHOTA NAGPORE.</b>			
South-West Frontier Agency.			
	41 Hazaribagh, Feb. 11, '87	Nil	Weather—cold and seasonable. <i>Rubbee</i> doing very well. Poppy crop damaged to the extent of about two annas by caterpillars. A few cases of small-pox reported from thana Tendwa. Cattle-disease on the increase and fever in thana Huntergunge.
	42 Loharungga, " 12 "	Nil	Weather—cold and clear. <i>Rubbee</i> doing well. Prices stationary. Fever reported from one thana; otherwise public health good.
	43 Singonoom, " 11 "	Nil	Weather—seasonable. Cold-weather crops are being gathered with good out-turn. General health good.
	44 Manbhoom, " 12 "	Nil	Weather—seasonable. Prospects of <i>rubbee</i> crops good. Sugarcane is being pressed. Public health good.

Published for general information.

CALCUTTA, REVENUE DEPT.;  
The 15th February 1887.P. NOLAN,  
Offg. Secy. to the Govt. of Bengal.



I.—Table showing the Monthly and Annual Rainfall at 249 Rainfall-recording Stations in Bengal for 1886.

DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
ORISSA.														
POOREE	Pooree	0.12	—	1.69	—	3.37	7.13	10.55	6.18	14.78	6.14	2.70	3.88	56.54
	Khurda	0.04	0.05	1.92	0.03	5.85	11.73	8.53	9.17	17.57	9.46	3.09	1.34	68.78
	Bampur	0.27	—	4.20	—	0.86	4.19	9.64	13.43	17.89	13.19	2.65	4.70	71.04
	False Point	0.18	—	3.12	—	4.74	7.90	17.78	7.23	15.91	5.47	1.34	1.25	61.02
	Gop Tipi	0.31 0.73	— —	3.22 2.20	— —	0.53 —	7.25 7.96	15.60 9.08	13.90 5.89	16.97 ?	7.37 ?	2.66 ?	1.75 ?	68.56
CUTTACK	Jagatsingapore	0.35	—	2.60	—	1.51	15.70	14.21	10.44	14.83	7.85	2.64	1.75	71.88
	Baaki	0.18	0.06	5.76	0.24	3.97	13.68	11.24	8.02	10.69	8.76	3.02	0.91	69.53
	Cuttack	0.34	0.35	5.64	—	5.44	20.02	11.63	8.63	11.99	11.77	1.99	0.48	70.70
	Kendrapara	0.40	0.18	2.52	—	4.26	11.61	11.91	6.82	10.85	8.96	1.50	0.69	59.61
	Jajpore Dharmasalla Salipore	0.59 1.05 —	— — —	2.73 4.61 2.76	— 0.26 —	2.52 5.95 7.89	13.50 8.79 10.01	9.91 10.02 9.72	15.19 15.45 9.12	14.49 13.30 11.39	5.94 10.40 14.92	5.94 2.25 0.98	1.20 0.18 0.15	61.8 60.85 66.94
BALASORE	Chandbali	1.18	0.08	2.85	—	5.96	10.96	7.45	8.76	16.57	5.25	1.97	—	61.04
	Bhuddruck	0.69	—	6.42	—	8.78	11.22	8.15	5.29	17.33	4.40	1.61	—	45.98
	Sorah	—	—	4.12	—	6.47	19.73	10.81	9.48	16.29	6.90	0.55	—	65.35
	Balsore	0.54	—	5.28	0.88	5.79	14.40	11.17	11.96	17.82	5.65	0.60	—	73.96
	Jelmisore Baripodah	0.32 0.40	— —	2.87 2.24	— 0.19	5.4 6.53	17.62 11.92	14.66 9.28	7.34 14.05	14.19 16.45	4.93 3.96	0.72 1.54	0.15 —	66.64 62.24
SOUTH-WEST BENGAL.														
MIDNAPORE	Contai	0.04	—	5.59	—	4.29	7.91	11.75	3.39	14.46	3.71	—	0.25	51.38
	Saugor Island	0.21	—	6.42	—	3.55	9.37	13.24	8.56	21.47	8.95	—	0.19	70.96
	Tumook	0.50	—	2.60	—	7.50	10.50	11.60	7.60	11.10	2.70	—	0.30	54.20
	Midnapore	0.08	—	0.94	—	7.51	7.90	9.50	11.29	8.57	4.45	0.10	—	49.84
	Ghattal	0.17	—	1.91	—	8.26	8.35	14.17	11.68	10.72	2.59	0.07	0.18	58.10
24-PERGUN- NAHS.	Deoga	0.57	—	2.23	—	5.67	4.84	11.46	4.62	15.17	1.39	—	—	45.95
	Heria	0.70	—	1.50	—	6.10	7.80	12.34	5.63	17.44	2.21	—	0.21	53.92
	Rhagwanpore	—	—	2.53	—	10.08	10.27	8.90	7.50	10.43	1.29	—	—	51.05
	Garbeta	0.37	—	3.33	—	7.94	8.93	10.91	7.55	11.84	4.56	0.14	—	54.47
	Diamond Harbour	2.37	—	1.53	0.07	6.54	5.67	15.41	8.66	15.23	3.59	0.36	0.82	60.66
HOWRAH	Canning Town	1.23	—	2.63	—	8.39	5.57	16.31	14.77	15.18	1.83	—	0.09	65.91
	Alipore Jail	1.47	—	2.49	—	7.79	11.72	15.72	8.81	15.38	3.78	—	—	67.16
	Barrackpore	0.27	—	3.61	—	6.11	6.65	15.50	14.22	12.32	2.86	—	—	60.38
	Dum-bum	0.13	—	2.44	0.04	7.42	8.93	14.10	12.97	11.90	1.22	—	—	59.55
	Rasail	1.12	—	5.18	—	6.61	11.42	12.16	13.94	12.23	2.82	0.27	—	61.75
HOOGHLY	Busseerhat	0.49	—	6.12	1.63	11.54	7.64	15.40	14.06	15.78	5.85	0.32	0.05	79.01
	Howrah	0.94	—	2.36	—	8.64	9.06	14.18	8.41	12.42	4.64	—	—	60.65
	Mohesreka (Golubheriah)	0.39	—	2.64	—	7.54	9.07	16.98	8.44	12.41	4.42	—	0.40	61.99
	Serampore	0.14	—	3.19	—	6.27	6.78	15.76	13.77	14.30	2.61	—	0.11	62.93
	Hooghly	0.35	—	2.92	—	8.88	8.62	15.42	10.53	11.55	1.77	0.30	—	60.14
BURDWAN	Jehannabad	0.19	—	2.09	—	4.63	14.41	19.84	10.20	10.68	4.14	0.50	—	66.08
	Culna	—	—	4.54	—	16.69	7.54	12.29	13.11	11.05	4.59	0.30	—	64.12
	Burdwan	0.40	—	2.36	0.04	8.97	10.52	17.48	9.07	13.81	2.34	0.07	—	64.09
	Cutwa	—	—	2.89	—	11.50	5.04	12.01	10.55	10.94	4.33	—	—	55.39
	Koneezunge	—	0.09	2.58	0.13	3.52	9.11	31.45	8.93	10.08	3.58	—	—	69.27
BANKOORA	Mankur	—	0.11	0.60	1.00	5.40	8.64	18.29	14.03	14.01	4.24	—	—	65.35
	Bankoora	0.35	—	2.31	1.65	5.91	6.54	14.23	10.97	10.86	2.07	1.25	—	56.23
	Rishenpore	0.48	—	3.61	0.78	8.91	7.64	13.00	9.55	11.65	1.78	0.39	—	56.12
	Maliara	—	0.12	1.33	1.34	5.34	7.81	17.99	15.89	8.80	2.70	1.09	—	62.23
	Khatra	0.12	—	0.97	0.38	4.13	6.45	13.63	9.66	10.16	5.14	1.85	—	53.39
BHERHOO	Indas	0.11	—	2.92	0.35	7.67	10.77	12.25	7.98	10.56	2.21	0.16	—	54.38
	Kotulpur	0.17	—	4.11	—	4.72	6.53	13.38	9.77	8.6	1.81	0.46	—	49.81
	Anda	—	—	0.57	—	2.69	4.29	7.34	11.91	11.02	1.10	0.90	—	39.64
	Ganzajalghati	—	—	0.81	1.41	5.16	11.17	16.44	10.70	10.14	4.41	0.27	—	60.51
	Raipore	—	—	3.32	0.32	5.96	8.69	15.10	10.60	9.53	5.76	1.07	—	60.48
KHOLNA	Sonamukhi	—	—	0.52	1.30	5.19	8.35	7.48	5.20	11.34	0.80	—	—	40.16
	Bh. Soory	—	—	0.59	1.08	4.36	10.88	14.06	14.82	17.33	5.38	—	0.01	68.50
	Helampore	—	—	—	—	5.11	9.28	27.58	8.77	16.92	1.63	—	—	60.09
	Rampore Haut	—	—	1.12	0.88	4.62	5.16	17.81	16.29	15.12	5.65	0.02	0.02	66.63
	Boipore	—	—	0.74	0.68	8.15	10.58	21.67	9.74	12.64	2.64	—	—	66.64
NUDDA	Ranaghat	—	—	3.48	3.40	9.30	9.95	14.67	7.78	9.47	3.31	0.57	—	62.33
	Kishnaghat	—	—	5.48	0.21	8.14	7.77	10.78	13.39	12.51	3.16	0.22	—	61.66
	Choudanaga	—	—	2.97	0.33	15.67	6.14	14.43	15.05	6.06	3.22	—	—	64.17
	Meherpore	—	—	3.37	2.52	16.80	6.16	12.45	13.39	9.25	3.75	0.12	—	61.81
	Koushtea	—	—	2.94	1.86	10.20	9.24	15.78	17.14	12.32	4.93	0.65	—	73.56
JESSORE	Satkira	0.21	—	7.19	3.13	9.39	6.36	14.76	12.80	12.45	6.31	—	—	72.57
	Ragiriast	0.46	—	5.96	1.97	5.59	14.81	10.05	16.95	14.62	7.42	—	—	86.83
	Khoolna	0.16	—	5.22	0.72	10.25	12.67	8.21	10.63	10.25	1.77	—	—	59.77
	Narail	0.06	—	3.88	0.18	10.12	11.07	9.95	13.18	11.02	2.13	—	—	61.59
	Jessore	0.10	—	4.99	0.73	8.21	8.87	15.86	17.74	13.87	5.03	0.10	—	75.59
MOORSHEDA- BAD.	Jhenidah	—	—	3.63	0.18	15.76	10.44	13.52	12.57	9.15	5.20	0.40	—	70.85
	Magoora	—	—	2.94	—	21.65	12.53	13.17	7.08	9.42	6.13	—	—	72.90
	Bongong	0.35	—	4.46	1.80	12.04	7.71	12.78	7.03	13.61	5.01	—	—	64.79
	Kandi	—	—	1.97	1.85	5.01	6.78	15.69	11.57	9.71	4.37	—	—	59.95
	Berhampore	—	0.15	1.89	0.83	5.33	7.90	11.94	11.82	17.39	3.69	0.03	—	69.92
EAST BENGAL.	Lalbagh	—	—	2.51	0.37	4.78	9.76	15.24	13.66	12.91	4.25	0.01	—	63.40
	Azimungo	—	—	1.01	0.72	5.39	11.55	10.66	14.97	13.39	4.66	—	—	61.65
	Jungipore	—	—	1.67	0.4	5.96	12.38	12.76	15.26	20.24	3.10	0.03	—	71.14
	Lalga	—	—	2.72	0.28	5.84	10.12	13.46	12.66	12.95	3.93	0.05	—	62.61
	Akhargunj	?	?	?	?	?	?	11.31	9.97	14.98	4.53	0.04	—	40.33
CHITTAGONG	Cox's Bazar	—	—	6.43	0.95	7.70	27.73	39.37	31.21	16.14	11.83	1.72	0.28	143.38
	Chittagong	—	—	7.59	0.21	11.56	40.97	19.58	33.68	14.79	4.94	0.39	0.02	133.69
	Kutubdia	—	—	6.94	1.60	6.85	27.91	32.89	23.27	14.28	11.11	1.94	—	124.99
	Satkanya	—	—	4.78	0.35	8.03	39.69	28.72	15.38	14.74	5.93	1.14	—	118.96
	Rangamati	—	—	5.										

DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
EAST BENGAL —concluded.														
NOAKHOLLY	Nonkholly	—	—	5'69	0'44	10'05	27'22	28'31	30'66	17'12	2'67	—	0'02	131'18
	Fenny	—	—	6'52	5'08	8'80	30'23	38'64	29'54	13'63	5'95	—	—	139'39
	Harishpore	—	—	5'58	5'12	10'04	29'64	34'13	30'59	26'13	12'99	1'35	—	155'56
FURTEEDPORE	Ramganj	—	—	3'95	3'05	12'53	20'61	21'02	30'81	11'50	0'62	—	—	103'29
	Madaripore	0'11	—	2'09	1'22	7'48	18'08	15'59	19'16	9'72	1'70	0'12	—	76'17
	Furteedpore	—	—	2'39	0'19	15'70	7'55	13'92	13'33	12'61	2'34	0'30	—	68'33
Dacca	Goulundo	—	—	4'59	0'57	13'73	7'12	13'97	11'32	12'37	2'07	—	—	65'65
	Munshizunge	0'27	—	4'51	5'12	11'95	21'41	22'23	24'16	17'23	3'27	—	—	110'13
	Dacca	—	—	5'09	6'47	7'62	14'35	16'33	19'38	11'78	1'83	—	—	83'37
TIPPERAH	Naraingunge	0'11	—	4'84	4'24	10'81	17'28	19'60	22'04	16'18	2'27	—	0'03	97'30
	Manickgunge	—	—	4'62	3'58	9'88	5'33	13'03	16'96	11'20	4'91	—	—	69'51
	Joydebpore	—	—	2'85	2'71	6'15	13'69	12'14	18'59	19'81	1'88	0'08	—	77'93
MIMENSINGH	Agartola	—	—	4'00	5'97	12'38	8'21	16'89	21'00	10'66	2'35	—	—	82'36
	Comilla	0'04	—	3'49	5'32	12'09	15'32	22'84	25'42	13'02	2'05	—	—	101'00
	Chandpore	—	—	3'58	2'95	10'85	20'05	17'60	23'65	19'30	2'60	—	—	100'58
NORTH BENGAL.	Brahmunberia	—	—	3'86	6'10	13'08	6'57	18'68	20'78	16'19	2'44	—	—	88'68
	Ramchandrapore	—	—	2'61	7'86	11'48	8'91	16'10	20'38	10'66	3'69	—	—	81'69
	Nasirnapar	—	0'17	3'76	7'89	9'85	9'21	13'04	18'13	4'11	6'96	—	—	73'02
RAJSHAHY	Bandkandi	0'09	—	4'28	3'42	7'59	17'41	17'75	14'57	16'71	3'19	—	—	84'92
	Kasba	—	—	5'87	5'13	14'13	6'91	17'19	21'90	12'15	1'08	—	—	87'56
	Laksham	—	—	3'04	5'28	6'75	18'99	25'94	28'05	13'24	0'98	—	—	102'27
MIMENSINGH	Kishoregunge	—	—	2'25	4'09	8'46	9'92	15'84	28'39	11'99	2'52	0'07	—	83'53
	Atia (Tangail)	—	—	1'23	3'02	5'96	7'06	9'31	18'78	16'36	4'94	—	—	61'88
	Mymensingh	—	—	1'44	2'94	9'76	13'58	13'72	18'27	15'69	2'84	0'03	—	78'27
NORTH BENGAL.	Jamalpur	—	—	2'34	1'54	7'00	7'90	9'73	13'38	22'73	3'02	—	—	67'04
	Netrokona	0'07	—	1'46	2'35	11'22	16'81	12'71	29'28	13'82	1'32	—	—	80'05
	Subornakhally	0'15	—	1'31	0'55	7'93	6'43	8'13	13'13	9'19	0'69	—	—	47'51
RAJSHAHY	Durgapore	0'59	—	1'55	2'00	—	Rejected	—	18'54	2'45	—	—	—	66'84
	Dewanganj	—	—	0'87	1'22	12'70	10'59	9'58	12'71	17'93	0'94	—	—	66'84
PUBNA	Pubna	—	—	2'33	0'76	8'17	6'52	16'01	17'58	15'51	5'49	0'10	—	66'47
	Serajunge	—	0'21	2'15	1'20	6'84	8'46	10'10	15'36	14'94	1'24	0'14	—	60'99
	Sherepore	—	—	1'02	0'77	7'65	12'24	13'63	16'53	13'02	1'60	0'05	—	66'51
BOGRA	Nowkhilla	0'10	—	1'37	1'69	10'81	7'03	19'13	20'15	12'52	2'70	—	—	66'59
	Bogra	0'11	—	1'10	0'37	8'71	10'99	10'91	17'40	17'23	2'64	—	—	63'66
	Paichbibi	0'25	—	1'18	0'22	12'05	11'04	10'58	12'06	22'23	4'35	—	—	74'86
RAJSHAHY	Beaulah	—	—	1'03	0'94	6'63	11'81	15'10	12'21	15'02	1'97	—	—	65'01
	Nations	—	—	1'15	0'64	7'16	8'77	9'91	12'45	16'95	3'04	—	—	60'07
	Nowgong	0'12	—	1'10	—	8'33	10'82	13'38	13'01	22'08	2'62	—	—	70'84
MALDAH	Lalpur	—	—	1'02	0'67	9'54	8'64	11'09	13'62	15'83	4'32	—	—	64'73
	Manda	0'07	—	1'00	—	6'50	7'02	11'00	13'47	17'20	3'59	—	—	59'85
	Maidah	—	0'85	1'04	—	4'16	14'30	12'95	12'00	20'83	7'50	—	—	74'73
DINAGPORE	Chanchal	0'05	—	0'30	0'20	3'09	4'56	13'77	9'85	18'71	1'66	0'20	—	52'85
	Gajol	—	—	0'31	—	3'41	6'49	15'98	16'06	21'77	2'95	0'10	—	69'88
	Sibgunj	—	—	0'40	0'45	7'30	9'60	10'43	12'98	20'95	2'69	—	—	65'11
DINAGPORE	Mohadebpore	—	0'54	0'86	—	7'31	10'56	12'40	12'48	31'55	4'81	—	—	80'51
	Churamon	—	0'24	0'57	0'40	4'39	6'31	16'68	13'17	22'84	1'54	0'21	—	66'55
	Raigunge	0'12	—	0'05	0'23	—	5'92	8'14	14'47	22'33	35'57	2'13	0'28	89'18
RANGPORE	Dinagpore	—	—	0'08	0'34	0'02	15'87	7'24	12'50	12'82	21'12	2'49	0'35	72'83
	Baloorghat	—	—	0'26	1'75	0'32	7'86	8'73	14'06	7'87	22'56	1'57	—	64'92
	Bhawaniungo (Gyabandha)	—	1'10	0'99	1'52	13'04	9'63	10'07	8'72	14'54	1'01	0'29	—	60'22
RANGPORE	Rangpore	—	0'06	0'08	3'03	13'17	10'72	12'82	13'86	18'94	1'46	0'06	0'02	71'22
	Kurigram	—	—	3'04	2'77	29'86	20'63	12'15	16'47	19'20	4'23	—	—	98'75
	Basu-gram (Nilphamari)	—	0'24	0'21	0'80	15'48	13'57	14'57	12'86	23'91	1'55	—	0'35	83'34
JULPIGOREE	Chupora	—	—	0'06	2'69	19'76	14'17	8'23	11'46	19'33	2'61	—	—	78'33
	Julpigoree	—	0'39	0'66	1'46	1'01	18'00	36'58	27'12	35'90	1'58	1'40	—	131'64
	Alipore Doar	—	0'62	2'67	2'49	12'89	37'54	2'11	30'93	30'85	6'27	0'29	—	147'03
COOCH BEHAR	Fallacatta	—	—	1'74	2'73	13'38	22'29	18'24	25'67	22'44	1'93	—	—	108'16
	Debiganje	—	—	—	—	—	11'24	20'35	13'18	21'81	1'71	—	0'30	—
	Dinbhatta	—	0'21	2'25	3'33	8'05	14'20	16'90	11'77	31'44	2'47	—	0'23	91'83
DARJEELING HILL.	Cooch Behar	—	0'07	1'33	1'42	11'59	24'08	1'79	21'14	32'19	4'64	—	0'16	115'88
	Aickligunje	—	0'32	3'57	1'73	12'01	18'64	32'12	24'52	20'61	2'62	0'13	0'21	124'75
	Matabhanga	—	0'14	2'10	2'68	9'84	26'36	22'07	28'16	28'55	2'17	2'64	0'05	122'25
NORTH BEHAR.	Buxa	0'21	0'25	0'87	5'11	16'13	41'45	57'07	66'33	41'13	2'67	0'73	0'03	227'79
	Siliguri	—	0'42	1'25	2'40	8'27	37'25	38'69	46'26	22'48	2'23	0'35	0'36	159'14
	Darjeeling	0'20	0'46	2'83	2'80	8'98	22'18	27'69	37'47	20'26	1'99	0'62	—	125'41
PURNIAH	Kalimpong	—	0'14	0'61	1'73	2'79	5'45	17'60	14'87	23'79	9'23	1'71	—	80'63
	Kissengunge	—	0'12	0'11	0'12	8'29	12'49	24'19	29'56	29'57	1'15	—	0'40	106'12
	Arrareah	0'20	0'19	0'94	0'07	7'91	7'32	30'42	18'40	22'53	2'69	0'08	0'19	90'05
NORTH BHA- GULPORE.	Purneah	0'25	0'06	0'53	0'42	2'35	10'14	17'52	28'17	20'16	2'63	—	0'94	82'36
	Gondwara	—	—	0'71	—	2'12	—	—	—	—	—	—	—	—
	Balarampore	0'09	0'07	0'28	0'03	1'54	5'55	—	21'54	29'59	2'24	—	—	—
DURDHUNGA	Matari	—	0'14	Nil	—	11'79	16'34	16'66	20'26	19'92	1'01	—	—	80'01
	Kaltaganj	—	—	Nil	0'07	10'01	13'17	12'98	21'40	20'49	—	—	—	78'12
	Muddapore	0'12	0'24	0'08	0'75	3'19	9'24	14'77	14'83	11'42	4'62	—	0'02	59'30
MOZUFFER- PORE.	Scopool	0'14	0'28	Nil	0'85	8'94	7'85	14'56	12'95	10'76	2'94	0'01	0'07	59'15
	Protabganj	0'05	0'20	Nil	0'51	5'98	6'47	17'49	13'15	19'23	1'86	—	0'06	65'00
	Tajpore	0'10	0'03	Nil	—	6'02	8'54	19'43	24'25	10'31	9'52	0'07	0'04	78'31
CHUMPARUN	Durrdhuna	0'34	0'08	0'27	0'70	2'10	5'06	14'57	18'82	9'89	5'33	—	0'57	87'78
	Madhubani	—	—	Nil	0'80	4'01	9'48	16'13	16'08	9'88	1'62	—	—	58'29
	Bauera	0'26	0'10	0'40	2'25	2'20	4'61	12'02	24'26	21'11	3'86	—	—	76'91
MOZUFFER- PORE.	Roshera	0'19	0'10	0'05	0'89	1'35	7'88	19'49	16'38	19'82	5'63	0'05	—	76'74
	Sitamarhi	—	—	1'24	0'08	4'20	3'70	14'46	12'06	17'06	3'74	—	0'28	56'82
	Mozufferpore	0'70	0'14	0'72	0'15	3'92	6'77	14'30	20'61	14'39	6'00	—	0'45	68'15
CHUMPARUN	Hajipore	—	0'06	0'74	—	1'95	4'04	21'43	13'89	12'22	5'32	—	—	58'96
	Pore	0'16	0'22	0'63	0'09	1'64	4'88	15'90	18'11	5'92	4'36	—	0'30	62'21
	Mahua	—	—	0'40	—	1'58	3'60	14'27	12'55	11'47	11'15	—	—	53'02
CHUMPARUN	Situar	—	—	Nil	—	3'10	8'11	10'76	19'17	9'32	9'61	—	—	60'07



DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
<b>NORTH BEHAR—conold.</b>														
SARUN	Gopalgunge	0'16	—	0'05	—	3'28	5'28	22'35	9'40	12'13	6'53	—	0'60	58'80
	Sewan	0'68	0'05	0'14	—	2'78	4'03	21'50	13'87	7'94	8'75	0'20	0'41	6'41
	Chuprah	0'12	0'14	0'26	—	3'50	5'73	25'02	11'89	9'08	12'23	0'18	0'38	60'33
<b>SOUTH BEHAR.</b>														
SHAHABAD	Buxar	0'30	—	0'11	—	0'58	8'87	15'71	5'15	10'63	7'07	0'03	0'56	48'79
	Dehree	—	0'25	1'56	—	0'30	2'27	13'84	9'63	12'99	9'37	0'80	0'30	51'30
	Bhubooh	0'10	—	0'85	—	1'86	7'72	16'07	8'71	7'97	8'48	0'30	0'48	53'44
	Sasseram	0'10	—	1'52	—	0'56	6'46	15'63	6'49	15'06	7'70	0'30	0'32	54'18
	Arrah	0'06	0'02	0'53	—	1'22	7'14	17'23	15'28	14'78	11'41	—	0'33	58'05
	Mohaniah	0'10	—	Nil	—	—	5'30	9'15	4'77	3'35	5'10	—	—	27'77
GYA	Aurungabad	0'41	—	1'97	—	1'28	8'43	13'73	13'47	18'04	9'08	1'00	0'23	67'03
	Gya	0'38	0'02	1'37	—	1'53	5'63	20'06	14'09	16'56	5'81	0'73	0'01	67'39
	Nowada	0'07	—	1'84	0'06	3'01	5'83	14'07	13'68	17'63	8'70	0'75	—	66'24
	Jehanabad	—	0'50	0'97	—	1'42	5'80	16'25	14'93	16'57	7'39	0'14	—	64'27
	Arcal	—	—	1'32	—	2'28	4'02	14'05	11'49	12'89	8'35	0'12	0'17	55'29
	Laudnagar	0'10	0'10	0'96	—	0'46	6'20	21'17	6'54	12'70	6'20	—	—	54'67
	Sherrghati	—	—	1'74	—	0'50	5'22	9'59	7'21	18'35	16'09	0'89	—	59'59
	Kajauli	0'12	—	2'50	—	5'30	—	—	7'45	8'80	1'00	—	—	69'91
PATNA	Pakri Barawan	—	—	2'60	—	2'20	4'32	20'50	27'65	6'75	5'02	0'67	—	69'91
	Patna	—	0'16	0'42	—	1'52	4'83	22'09	18'27	12'11	5'84	0'18	0'13	65'55
	Dinapore	—	0'02	0'28	—	1'65	4'23	25'06	19'63	10'54	8'99	0'67	0'14	70'72
	Behar	0'26	0'24	0'62	—	1'38	5'40	14'43	10'20	14'76	6'70	0'14	—	54'13
	Barrh	—	—	0'10	0'59	2'09	3'55	19'10	10'50	11'10	3'55	0'20	0'08	59'09
MONGHYR	Hickram	—	—	—	—	—	—	—	—	8'92	5'62	—	0'10	—
	Hilsa	—	—	—	—	—	—	—	—	—	—	—	0'05	—
	Beegooserni	—	0'73	0'21	0'09	1'31	9'20	8'98	9'78	11'73	8'07	0'32	—	51'02
	Monghyr	0'14	0'55	0'42	0'36	3'15	6'30	17'30	11'05	21'07	4'88	0'22	—	66'13
SOUTH BHA- GULPORE.	Jamui	—	0'21	0'77	—	2'08	8'47	17'87	8'53	11'11	9'50	0'23	—	58'79
	Gogri	—	0'35	0'18	—	0'61	6'29	11'83	12'79	17'20	2'87	0'27	—	52'39
	Sheikpura	—	0'40	2'52	—	3'08	5'08	13'67	11'83	14'47	12'74	—	—	64'29
	Bhagulpore	0'09	0'64	0'77	—	2'63	7'08	13'23	10'47	25'61	3'76	0'37	—	64'68
SOUTH PER- GUNNAH.	Banka	0'12	0'28	0'28	—	5'86	11'17	10'85	9'97	15'60	5'97	0'22	—	66'32
	Kolgong	0'35	0'90	1'05	—	1'66	6'76	13'35	6'20	15'91	6'80	0'27	—	53'25
	Rajmehal	—	0'35	0'87	—	5'82	13'83	15'06	10'84	39'07	3'24	—	—	89'08
	Godda	—	0'15	0'45	—	5'58	6'26	11'58	15'46	12'21	3'83	0'15	—	55'67
CHUTIA NAGPORE.	Pakour	—	0'03	0'92	—	6'05	12'31	18'87	16'51	23'76	5'02	—	—	85'27
	Nya Doomka	—	0'01	2'14	0'85	3'78	9'40	18'54	15'99	21'85	2'81	—	—	75'39
	Deoghur	—	0'05	0'77	—	5'05	9'67	12'56	12'19	16'77	5'20	0'70	—	61'97
	Jamtara	—	0'21	0'88	—	4'33	9'38	12'81	12'93	16'74	11'16	—	—	68'34
	Simra	—	0'51	0'63	—	4'76	8'34	12'95	11'64	15'12	2'89	0'08	—	60'83
	Nanihat	—	—	1'51	0'16	6'11	7'75	12'98	14'66	?	?	0'40	—	43'47
HAZARIBAGH...	Pachamba (Giridi)	0'05	0'10	2'28	—	2'60	6'09	11'83	14'87	16'33	7'74	0'56	—	62'39
	Hazaribagh	0'06	—	2'11	0'31	3'72	6'44	11'63	12'15	9'47	11'88	0'84	—	58'61
	Semtagurah	—	—	3'43	0'40	2'73	4'95	10'90	10'70	8'68	12'55	0'40	—	54'74
	Mahudi Hills	—	—	1'74	—	0'77	8'92	12'14	14'28	10'68	8'30	0'79	—	27'62
	Jhoomrah Hills	—	—	1'40	—	2'40	7'70	8'50	12'50	17'40	11'40	1'00	—	62'36
	Barhi	—	—	1'93	—	2'04	6'10	16'15	8'71	19'72	12'10	1'30	—	68'05
	Chitra	—	—	2'62	—	2'15	7'06	17'45	10'47	18'91	9'07	2'06	—	69'79
	Karagdeha	—	—	2'37	0'74	1'95	8'05	14'73	13'46	8'86	10'48	1'10	—	62'66
LOHARDUGGA	Ramghar	—	0'31	1'48	0'05	1'55	7'19	12'49	8'61	8'38	12'88	1'69	—	54'65
	Lohardugga	0'14	—	1'58	0'04	5'02	12'08	13'18	8'85	11'58	6'17	1'76	0'08	60'48
	Ranchee	0'25	—	2'70	0'14	4'40	7'24	11'66	13'06	8'92	6'53	0'95	—	56'67
	Palamow	—	0'10	2'37	—	2'14	6'03	6'41	7'91	14'04	9'38	0'64	—	49'59
	Silli	0'05	—	1'34	1'04	0'47	3'40	19'70	9'70	9'70	3'60	1'27	—	51'75
	Balumal	—	—	1'00	—	—	5'60	10'70	6'59	22'56	5'30	—	—	—
	Hosseinaud	—	—	—	—	0'25	5'24	10'32	—	—	9'18	0'53	—	—
	Gaywah	—	—	—	—	2'34	7'39	9'95	15'20	16'50	7'77	0'97	—	69'21
SINGBHOOM	Chyebassa	0'60	—	1'26	0'30	5'33	7'52	13'62	5'50	6'33	5'10	0'14	—	45'64
	Chakradharpore	0'12	—	2'76	0'33	3'80	7'21	17'21	4'74	13'68	6'90	0'38	—	59'85
	Ghatsilla	0'22	—	3'11	0'06	5'80	4'79	15'81	12'15	11'65	7'04	0'44	0'15	60'42
	Baharagura	—	—	2'04	0'09	5'35	9'54	9'50	8'50	9'40	6'83	—	—	51'35
MANBHOOM	Purulia	0'05	—	1'11	—	4'12	5'78	12'56	7'38	12'66	2'86	0'28	—	46'60
	Gobindpore	—	—	0'24	—	1'47	5'11	11'10	4'04	12'76	8'94	0'04	—	48'70
	Raghunathpore	—	0'03	1'65	—	5'51	6'96	10'35	9'08	14'71	5'51	0'03	—	62'83
	Barrabhoom	0'29	—	1'22	2'81	2'96	4'33	12'92	5'50	6'08	5'49	0'05	0'03	41'68
	Jhaldia	0'63	—	0'74	—	—	4'68	—	10'15	—	5'19	—	—	—
	Chas	—	0'30	0'37	—	4'46	5'85	14'29	12'72	13'77	8'62	—	—	59'88

METEOROLOGICAL OFFICE, BENGAL,

The 14th February 1887.

JOHN ELIOT,

Meteorological Reporter to the Government of Bengal.



II.—Table showing the Monthly and Annual average Rainfall at Rainfall-recording Stations in Bengal.

DISTRICT.	STATION.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
ORISSA.															
POOREE	Pooree	20-22	0.23	1.11	0.59	0.94	2.62	7.95	10.23	10.91	10.13	8.30	1.92	0.78	55.71
	Khurda	16-17	0.26	0.79	0.50	0.72	3.50	9.71	12.79	12.70	10.67	7.04	1.64	0.56	61.28
	Banpur	7-8	0.10	1.28	1.01	0.85	2.20	7.76	11.12	11.52	10.54	6.33	1.99	1.61	50.51
	False Point	19-20	0.42	0.80	1.19	2.3	3.24	9.61	14.2	13.50	11.28	10.51	2.13	0.70	60.97
CUTTACK	Jagatsingapore	14-16	0.27	0.60	0.83	0.79	2.59	8.15	11.24	10.28	8.84	7.19	1.33	0.44	52.57
	Banki	4-5	0.67	0.81	1.79	0.46	2.51	11.37	12.60	7.61	11.16	4.70	1.47	1.14	55.03
	Cuttack	26-29	0.57	0.57	1.14	1.48	3.23	10.67	12.56	11.15	9.78	5.77	1.04	0.52	58.28
	Kendrapara	16	0.38	0.67	0.89	1.13	3.78	8.73	12.07	12.82	9.41	6.46	0.86	0.54	57.74
BALASORE	Jajpore	14-16	0.39	1.36	1.09	2.06	4.4	10.96	13.21	10.85	10.19	5.53	0.68	0.80	60.20
	Chandbali	13-14	0.34	1.07	1.26	1.15	4.38	8.24	12.20	11.42	11.60	6.49	1.52	0.66	60.33
	Rhuddruck	16-17	0.33	1.31	1.21	1.94	4.78	9.31	12.21	10.75	11.01	4.77	0.98	0.41	59.01
	Soorah	13-14	0.23	0.78	1.51	1.86	4.66	6.78	12.31	11.17	11.66	5.80	0.75	0.15	57.60
SOUTH-WEST BENGAL.	Balasore	27-28	0.71	1.22	1.76	3.13	4.63	10.37	11.91	12.37	12.73	6.86	1.10	0.25	67.24
	Jellapore	13-14	0.71	1.11	0.93	1.33	3.42	8.21	15.16	11.05	10.77	4.76	0.42	0.12	57.69
	Baripada	8	0.25	0.58	1.40	1.44	4.65	11.63	12.82	11.99	12.37	4.35	0.60	0.27	61.69
MIDNAPORE	Contai	18-20	0.32	1.85	1.15	1.54	4.49	10.93	14.63	13.79	11.96	8.72	0.94	0.98	70.20
	Sagar Island	19-20	0.28	1.13	1.36	1.33	4.78	11.47	16.10	15.55	12.83	9.39	0.66	0.32	75.00
	Tumlook	16	0.35	1.24	1.87	1.68	4.97	9.25	11.45	14.10	8.38	4.58	0.21	0.29	58.37
	Midnapore	21-23	0.70	0.82	1.40	1.57	5.24	9.92	12.15	12.11	8.36	5.11	0.34	0.31	58.05
MIDNAPORE	Ghatat	10-11	0.41	0.96	1.43	1.75	5.29	10.06	13.42	15.74	8.86	3.64	0.12	0.32	61.97
	Garbeta	5-7	0.53	1.17	1.90	1.92	4.55	7.45	12.49	12.54	9.77	3.18	0.62	0.28	66.30
	Diamond Harbour	16-17	0.51	1.64	1.47	2.35	5.24	9.97	14.49	14.28	10.99	5.30	0.38	0.50	60.95
	Alipore Jail	16-17	0.63	1.54	1.51	1.75	5.31	10.36	13.17	13.63	9.88	4.50	0.32	0.37	62.97
MIDNAPORE	Barrackpore	16-17	0.37	1.35	1.4	1.71	5.10	9.22	12.11	12.54	7.54	3.48	0.49	0.32	55.34
	Dum-Dum	16-17	0.43	1.16	1.44	1.97	5.71	10.64	12.01	12.94	9.03	4.32	0.24	0.33	60.67
	Barasat	16-17	0.48	1.25	1.39	1.78	6.11	10.64	10.83	12.16	9.16	4.50	0.31	0.33	58.36
	Burseerhat	16-17	0.40	1.09	2.15	2.03	6.80	10.78	12.62	13.16	8.92	4.33	0.38	0.25	62.91
HOWRAH	Howrah	18-19	0.53	1.32	1.84	2.63	4.94	11.20	12.51	12.75	9.32	4.32	0.29	0.30	61.44
	Moheraka (Oolobertah)	11-12	0.37	1.56	1.13	1.40	6.47	9.23	13.28	13.38	8.76	3.66	0.48	0.33	60.07
HOOGHLY	Serampore	15-16	0.37	1.21	1.18	1.97	4.93	10.67	12.77	12.65	8.66	4.32	0.23	0.31	58.17
	Hooghly	22-23	0.41	1.45	1.73	2.75	5.83	10.18	12.05	12.82	7.86	4.04	0.32	0.28	59.75
	Jeonabad	15-16	0.33	1.37	1.23	1.77	5.13	9.66	12.66	10.47	9.20	4.58	0.25	0.21	62.92
BURDWAN	Colna	16-17	0.28	1.15	1.30	2.40	4.72	8.64	10.70	11.80	6.61	4.05	0.42	0.24	52.43
	Burdwan	26-27	0.29	0.78	1.22	2.42	4.97	9.79	12.30	12.40	8.22	4.64	0.52	0.18	57.73
	Cutwa	16-17	0.10	1.25	1.12	1.82	4.76	9.82	9.89	12.20	8.54	4.15	0.22	0.12	53.29
BANKPORE	Raneegunge	17	0.28	1.27	0.72	1.18	2.46	8.48	13.77	13.42	7.54	3.55	0.20	0.13	53.29
	Bankoora	29-32	0.33	1.11	1.48	1.58	3.46	9.82	12.74	12.13	8.84	4.72	0.43	0.18	56.75
	Bishenpore	7-8	0.22	0.72	1.46	1.31	5.41	10.40	11.23	14.07	9.51	2.84	0.06	0.33	67.56
BANKPORE	Mahara	6-7	0.05	0.67	0.86	0.87	2.87	9.17	13.39	14.26	6.61	4.19	0.38	0.30	53.62
	Khatra	6-7	0.38	0.56	0.93	0.53	3.25	10.30	15.20	13.46	10.75	4.79	0.66	0.50	61.31
	Raipur	7-8	0.50	0.95	1.15	0.81	3.94	8.18	11.09	15.70	10.56	3.78	0.33	0.28	57.67
BHERBHOM	Bh. Soory	24-27	0.41	0.98	0.58	0.90	3.00	10.36	12.54	13.74	9.95	3.71	0.12	0.18	56.47
	Hetampore	11-12	0.43	1.08	0.37	1.08	3.02	11.93	14.29	12.49	11.08	2.80	0.12	0.15	58.84
	Rampore Haut	14	0.42	0.92	0.54	1.46	2.97	9.53	10.84	13.15	11.25	3.98	0.17	0.20	55.45
MURSHIDA	Ranaghat	16-17	0.39	0.96	1.29	3.15	5.22	9.80	10.28	12.91	6.75	3.87	0.41	0.25	55.28
	Kishinshur	23-26	0.41	1.08	1.15	2.54	6.43	9.65	9.97	10.06	7.86	4.84	0.39	0.16	55.08
	Choodanga	16-17	0.29	1.17	1.70	2.88	8.05	9.47	9.78	12.23	10.13	4.50	0.40	0.17	60.86
MURSHIDA	Mehernore	16-17	0.29	1.09	1.90	2.99	5.26	9.89	10.67	12.30	8.04	3.74	0.15	0.20	55.92
	Kooshtea	17	0.33	1.16	1.53	3.03	7.17	11.34	11.11	12.16	10.10	5.02	0.27	0.21	63.43
MURSHIDA	Satkira	16-17	0.36	1.04	2.02	3.02	6.21	12.74	12.33	12.42	9.06	4.00	0.40	0.37	65.17
	Bagirhat	15-16	0.52	1.43	1.75	3.59	6.88	14.47	14.74	12.71	10.21	5.17	0.56	0.30	72.13
	Khoolna	15-16	0.56	1.30	1.94	3.35	6.49	12.96	11.74	12.49	9.84	4.25	0.45	0.36	65.73
JESSORE	Narail	15-16	0.64	1.22	1.80	3.39	7.00	11.54	9.31	10.33	7.53	3.38	0.42	0.26	57.51
	Jessore	27-32	0.14	0.87	2.10	4.58	7.52	13.31	11.63	11.81	9.26	5.59	0.85	0.29	68.16
	Jhenidah	15-16	0.29	1.19	2.11	3.49	6.43	12.91	9.90	13.07	9.26	4.66	0.27	0.19	63.97
JESSORE	Magora	15-16	0.28	1.13	2.26	4.10	8.20	11.86	10.59	10.19	8.49	3.80	0.23	0.18	61.22
	Bongong	17	0.20	1.16	1.61	2.86	6.10	9.03	10.71	13.14	7.92	4.58	0.31	0.38	58.99
MOORSHEDA	Kandi	11-12	0.27	0.95	0.72	1.53	4.26	9.23	12.08	11.90	9.45	4.08	0.35	0.39	55.07
	Berhampore	32-34	0.40	0.97	1.04	1.93	4.79	9.46	10.30	10.81	9.77	5.28	0.29	0.13	55.32
	Lalbagh	16	0.42	0.72	0.73	1.20	4.44	9.03	10.15	12.56	10.26	4.17	0.25	0.11	54.04
MOORSHEDA	Azingunge	14-15	0.46	0.82	0.77	1.30	4.29	8.98	10.04	12.83	9.53	5.24	0.21	0.14	54.61
	Jungipore	16	0.39	0.79	0.61	1.24	4.38	8.59	10.82	11.56	10.67	3.68	0.10	0.14	52.97
	Lalgola	13-14	0.58	0.71	0.80	1.26	4.09	8.51	11.23	11.13	10.73	4.59	0.23	0.15	64.91
EAST BENGAL.															
CHITTAGONG	Cox's Bazar	16-17	0.38	0.45	1.88	2.57	10.55	35.26	40.20	27.02	15.36	7.88	2.07	0.41	144.63
	Chittagong	28-32	0.40	1.22	1.84	4.70	9.09	23.55	21.87	21.43	18.93	5.76	1.55	0.90	105.94
CHITTAGONG	Ranamat	18	0.38	1.23	2.72	3.99	10.09	18.69	19.17	18.92	12.93	7.22	1.76	0.59	97.29
	Mill Tracts	8-9	0.29	0.51	2.53	3.85	9.17	22.22	16.73	14.56	12.81	7.55	2.00	0.68	93.00
CHITTAGONG	Patnakhally	14-15	0.48	1.20	1.76	2.82	8.44	23.18	21.63	17.30	13.13	6.23	1.56	0.50	98.22
	Ferozepore														

DISTRICT.	STATION.	Number of years.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
NORTH BENGAL.															
PURNIA	Pubna	23-25	0.35	1.15	1.54	3.48	7.08	12.02	10.53	12.09	11.43	4.81	0.33	0.11	65.98
	Serajeunge	16-17	0.40	1.02	1.10	2.69	7.63	10.84	11.25	11.55	9.92	4.40	0.40	0.15	61.35
BOGRA	Sherpore	10-11	0.26	1.03	1.12	1.45	8.05	11.98	13.66	13.00	10.14	4.21	0.62	0.24	66.36
	Nowkhilla	10-11	0.31	1.06	0.88	1.93	7.75	12.14	11.44	11.22	9.63	5.03	0.58	0.17	62.08
	Bogra	24-27	0.41	1.61	0.78	3.59	8.55	15.09	16.25	12.34	11.98	4.74	0.80	0.12	75.76
	Panchibibi	10-11	0.27	0.60	0.86	1.39	6.90	11.13	12.83	11.46	10.55	4.32	0.02	0.21	60.54
RAJSHAHYE	Beaulah	28-32	0.27	0.95	1.18	1.76	5.53	10.79	11.76	10.86	10.92	4.86	0.28	0.09	59.19
	Nattore	16-17	0.57	0.89	0.74	2.19	6.81	10.36	12.08	12.16	11.64	4.61	0.26	0.12	62.42
MALDAH	Maldah	29-31	0.63	0.77	0.88	1.87	3.84	10.06	10.69	10.08	10.85	4.40	0.22	0.35	53.94
	Chanchal	9-11	0.44	0.78	0.45	1.03	4.55	12.54	13.16	14.77	11.06	3.13	0.22	0.09	62.23
DINAGPORE	Mohadebore	8-9	0.13	0.60	0.63	1.10	5.93	13.17	10.76	13.75	12.05	3.25	0.11	0.20	61.00
	Churamon	7-8	0.16	0.39	0.41	0.53	3.84	11.16	12.31	11.00	12.85	2.72	0.03	0.20	56.66
	Raigunge	10-11	0.45	0.59	0.45	1.05	5.77	13.75	12.24	11.63	10.92	3.50	0.10	0.17	61.20
	Dinapore	27-29	0.26	0.61	0.74	2.16	7.23	16.79	15.09	13.91	12.94	4.38	0.23	0.10	74.14
	Baloorghat	5	0.12	0.27	0.52	0.76	4.70	11.81	18.26	9.04	10.38	3.82	0.02	0.35	60.02
	Bhawnigunge (Gyabanda).	16	0.31	0.56	1.36	2.44	8.55	16.34	12.64	10.57	11.85	5.07	0.12	0.18	69.99
RANGPORE	Rangpore	26-30	0.37	0.40	1.04	2.03	10.44	21.11	10.32	12.84	13.32	4.96	0.29	0.12	84.14
	Kurigram	11-12	0.46	0.36	1.75	3.91	13.80	22.72	14.19	10.65	12.85	4.66	0.17	0.27	83.77
	Bagdogra (Nilphamari)	10-12	0.25	0.59	1.00	3.34	11.01	24.75	12.99	16.61	15.83	4.24	0.03	0.24	91.23
JULPIGORE	Julpigoree	17-18	0.43	0.33	1.73	3.73	11.21	28.62	26.26	25.62	24.29	8.53	0.11	0.09	127.28
COOCH BEHAR	Dinhatia	10-11	0.44	0.40	1.71	4.66	14.37	33.15	17.21	14.26	22.85	5.44	0.02	0.23	114.14
	Cooch Behar	15-16	0.38	0.31	1.63	5.35	14.57	35.67	21.94	21.51	22.61	5.61	0.07	0.11	139.73
	Mickligunge	10-11	0.14	0.33	1.16	4.67	12.73	27.22	22.35	22.98	23.61	4.76	0.03	0.18	119.23
	Matlabhanga	10-11	0.24	0.35	2.34	3.79	13.51	31.66	22.05	22.57	24.63	5.89	0.05	0.14	127.22
DARJEELING HILL.	Buxa	17-18	0.85	0.97	2.90	8.87	20.05	45.28	48.71	43.92	32.41	10.45	0.50	0.63	216.60
	Siliguri	3-4	0.36	0.14	1.25	2.02	6.44	21.56	27.69	25.13	11.52	4.27	0.18	0.16	101.22
	Darjeeling	26-29	0.67	1.18	2.32	3.91	7.26	25.55	31.17	26.72	18.35	6.63	0.21	0.23	124.18
	Kalimpoung	5	0.63	0.69	1.83	2.45	6.07	19.42	20.24	22.94	10.79	5.24	0.24	0.42	99.32
NORTH BEHAR.															
PURNEAH	Kissengunge	15-16	0.49	0.50	0.67	1.35	5.35	15.60	17.60	15.88	14.26	3.24	0.05	0.16	74.23
	Arracah	14-16	0.33	0.60	0.55	1.46	5.13	13.14	16.46	13.55	13.84	3.33	0.05	0.19	68.81
	Purneah	16-17	0.34	0.61	0.37	1.27	3.28	11.20	14.31	14.55	14.41	3.99	0.08	0.19	64.32
NORTH BHA-GULPORE.	Maddapore	16-17	0.38	0.62	0.52	0.89	3.56	8.69	11.84	11.90	10.04	4.90	0.66	0.09	52.78
	Soopool	15-16	0.37	0.44	0.33	0.68	3.53	9.13	11.39	11.52	9.93	2.76	0.64	0.13	50.22
DURDHUNGA	Tajpore	16	0.58	0.43	0.25	0.29	2.06	7.32	12.52	10.44	8.36	3.21	0.10	0.09	45.11
	Durdhunga	16	0.45	0.48	0.25	0.57	2.28	7.62	11.96	11.18	9.88	2.97	0.07	0.19	47.73
	Madhubani	15-16	0.66	0.47	0.37	1.04	2.80	8.31	10.70	9.99	10.45	2.53	0.03	0.08	47.61
MOZUFFERPORE	Sitamarhi	16	0.51	0.33	0.63	1.00	2.60	7.48	10.86	9.73	9.75	2.52	0.01	0.13	44.23
	Mozufferpore	28-31	0.87	0.34	0.46	0.48	2.34	6.63	10.84	10.96	8.74	3.14	0.08	0.09	45.71
	Hajipore	15-16	0.53	0.52	0.38	0.20	1.52	6.78	12.08	10.48	7.47	4.04	0.14	0.13	44.23
CHUMPARUN	Motihari	27-29	0.44	0.30	0.54	0.58	2.42	8.00	11.07	12.42	8.55	3.55	0.08	0.16	48.11
	Beutah	15-16	0.67	0.47	0.39	0.70	2.71	8.38	12.98	12.69	9.59	3.35	0.01	0.26	62.11
SURUN	Gopalgunge	7-9	0.43	0.52	10.11	0.08	2.86	6.65	13.48	10.78	6.66	5.51	0.14	0.21	47.61
	Sewan	16-17	0.70	0.54	0.24	0.26	1.78	6.82	12.66	10.77	8.80	3.90	0.11	0.16	46.11
	Chuprah	31-34	0.66	0.46	0.39	0.38	1.26	6.32	10.72	9.34	7.40	2.96	0.20	0.10	46.23
SOUTH BEHAR.															
SHAHABAD	Buxar	18-19	0.71	0.35	0.27	0.15	0.73	4.94	11.25	10.02	7.34	3.25	0.15	0.23	39.23
	Sasaram	16-17	0.62	0.55	0.61	0.19	1.04	5.40	12.42	11.55	6.78	3.19	0.52	0.39	43.71
	Bhuboah	16-17	0.43	0.54	0.29	0.12	0.96	5.1	11.83	11.69	7.13	3.63	0.23	0.31	42.61
	Arrah	28-31	0.81	0.57	0.49	0.54	1.27	6.70	12.62	10.25	8.62	2.93	0.21	0.13	45.71
GYA	Aurangabad	15-17	0.33	0.40	0.40	0.21	1.25	5.56	12.07	12.5	7.49	2.86	0.24	0.40	44.23
	Gya	25-27	0.67	0.53	0.43	0.33	1.18	6.22	11.93	9.56	7.04	2.47	0.22	0.20	46.23
	Nowada	16-17	0.58	0.52	0.46	0.97	1.97	5.63	11.70	10.71	7.11	2.70	0.19	0.25	42.23
	Jehanabad	14	0.61	0.45	0.33	0.13	1.46	5.11	12.33	12.42	5.61	3.19	0.27	0.21	42.23
PATNA	Patna	31-33	0.66	0.50	0.35	0.28	1.51	6.86	10.52	9.92	8.15	2.91	0.22	0.17	47.23
	Dinapore	16-17	0.47	0.34	0.17	0.25	1.25	6.52	11.51	11.57	7.01	3.17	0.14	0.20	42.23
	Behar	16-17	0.59	0.59	0.26	0.22	2.03	6.59	12.84	10.63	6.69	3.34	0.24	0.15	45.23
	Barth	16-17	0.41	0.48	0.31	0.12	2.08	5.15	12.49	9.58	7.72	3.19	0.23	0.14	41.23
MONGHYE	Beegoserai	16-17	0.38	0.60	0.23	0.36	2.61	6.20	11.14	9.76	7.13	3.21	0.31	0.09	41.23
	Monghyr	32-35	0.38	0.68	0.44	0.13	1.82	6.75	11.28	10.73	8.44	3.63	0.26	0.11	45.23
	Jamui	15-17	0.59	0.67	0.34	0.50	1.98	6.57	12.46	11.46	7.59	2.65	0.09	0.09	44.23
SOUTH BHA-GULPORE.	Bhagnulpore	32-33	0.45	0.68	0.38	0.82	2.45	8.27	11.21	10.74	8.06	4.14	0.25	0.10	47.23
	Banks	16-17	0.52	0.56	0.29	0.57	2.30	7.85	10.69	11.17	8.34	3.52	0.13	0.15	46.23
SOUTHAL PER-GUNNAH.	Rajmehal	15-17	0.18	0.51	0.32	1.00	4.05	10.65	12.97	9.96	12.66	3.15	0.24	0.06	55.23
	Godda	14-15	0.16	0.61	0.53	0.34	2.65	7.06	10.91	11.62	10.10	3.19	0.10	0.14	47.23
	Pakour	8-9	0.17	0.80	0.56	0.33	4.20	11.56	11.62	1.19	12.23	4.23	0.09	0.12	38.23
	Nya Doomka	16	0.17	0.73	0.70	1.09	3.17	9.28	13.80	13.66	10.70	4.22	0.15	0.21	38.23
	Deoghur	17-18	0.38	0.69	0.67	0.80	2.88	8.29	13.41	1.36	8.91	4.63	0.15	0.18	32.23
CHUTIA NAG-PORE.	Jamtara	11-13	0.23	0.54	0.79	0.57	3.12	8.50	15.45	12.80	8.04	3.29	0.31	0.17	51.23
HAZARIBAGH.	Pachamba	16-17	0.34	0.76	0.69	0.66	2.14	8.29	13.18	12.37	8.92	3.29	0.22	0.19	51.23
	Hazaribagh	25-27	0.44	0.78	0.74	0.37	1.60	8.33	12.62	12.73	7.97	3.41	0.34		



DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
ORISSA.														
POORNA	Poorne ... ..	-0.11	-1.11	+1.10	-0.04	+0.75	-0.82	+0.32	-1.73	+1.65	-0.16	+0.78	+3.16	+0.81
	Khurda ... ..	-0.22	-0.74	+1.02	-0.60	+2.35	+2.02	-1.24	-3.33	+3.70	+2.12	+1.45	+0.75	+7.0
	Banpur ... ..	+0.17	-1.28	+3.19	-0.85	-1.34	-3.37	-1.43	+1.91	+3.75	+0.60	+0.60	+3.60	+14.53
	False Point ... ..	-0.24	-0.89	+1.03	-2.38	+1.50	-1.71	+3.66	-6.27	+3.75	-5.94	-0.79	+0.55	-5.95
CUTTACK	Jacatsingapore ... ..	+0.68	-0.60	+1.77	-0.79	-1.08	+7.55	+2.97	+0.16	+5.97	+0.56	+1.31	+1.31	+10.31
	Panki ... ..	+0.11	-0.75	+3.97	-0.22	-1.46	+2.31	-1.36	+0.41	-0.41	+0.66	+1.55	-0.23	+10.00
	Cuttack ... ..	-0.03	-0.21	+4.52	-1.48	+2.21	+0.35	-1.51	-2.52	+1.21	+0.90	+0.95	+0.94	+21.42
	Kendrapara ... ..	+0.02	-0.19	+1.63	-1.13	+0.48	+2.88	-0.13	-0.60	+1.44	+2.59	+0.41	+0.65	+1.89
	Jajpore ... ..	+0.20	-1.36	+1.04	-2.00	-1.52	+5.44	-3.39	+4.94	+4.39	+0.41	+0.52	-0.52	+6.0
BALASORE	Chandbali ... ..	+0.84	-0.69	+1.59	-1.15	+1.58	+2.72	-1.74	-2.96	+4.97	-1.24	+0.45	-0.61	+0.71
	Shuddruek ... ..	+0.36	-1.31	+3.21	-1.04	+4.00	+1.91	-1.06	-3.46	+0.32	-0.28	+0.63	-0.41	+6.97
	Sorah ... ..	-0.23	-0.78	+2.61	-1.86	+1.87	+3.75	-1.59	-1.39	+4.63	+1.10	-0.20	-0.15	+7.75
	Balasore ... ..	-0.17	-1.22	+3.52	-2.25	+1.13	+4.93	-0.74	-0.81	+5.09	-1.21	-0.69	-0.25	+6.72
	Jalassore ... ..	-0.39	-1.11	+1.94	-1.33	+0.52	+3.41	-0.69	-3.71	+3.42	+0.17	+0.30	+0.03	+8.05
	Baripoda ... ..	+0.15	-0.68	+1.61	-1.34	+1.88	-0.61	-3.24	-1.94	+4.14	-0.33	+0.34	-0.27	+0.85
SOUTH-WEST BENGAL.														
MIDNAPORE	Contai ... ..	-0.29	-1.35	+4.14	-1.54	-0.29	-3.02	-2.88	-10.46	+2.59	-5.01	-0.91	-0.13	-18.82
	Saugor Island ... ..	-0.07	-1.13	+5.06	-1.33	-1.63	-2.10	-2.86	-6.99	+7.44	-0.11	-0.65	-0.13	-4.0
	Tumlook ... ..	+0.15	-1.24	+0.75	-1.08	+2.33	+1.25	+0.15	-0.50	+2.72	-1.88	-0.21	+0.91	-1.17
	Midnapore ... ..	-0.62	-0.82	+0.16	-1.67	+2.25	-2.52	-2.65	-0.82	+0.21	-0.66	-0.24	-0.51	-8.21
	Ghatall ... ..	-0.27	-0.96	+0.48	-1.75	+3.09	-1.74	+0.75	-4.06	+1.92	-1.95	-0.67	-0.14	-3.87
	Garbetta ... ..	-0.16	-1.17	+1.63	-1.92	+2.49	+0.58	-1.58	-4.39	+2.07	+1.38	-0.38	-0.28	-1.83
24 PERGUN- NAHS.	Diamond Harbour ... ..	+1.83	-1.64	+0.06	-2.28	+1.39	-4.39	+0.52	-5.62	+4.24	-1.80	-0.02	+0.52	-6.89
	Alipore Jail ... ..	+0.84	-1.74	+0.98	-1.75	+2.48	+1.36	+2.55	-4.82	+5.50	-0.72	-0.37	-0.37	+4.54
	Rarrackpore ... ..	-0.10	-1.35	+1.40	-1.71	+1.01	-3.19	+3.45	+1.98	+4.78	-0.62	-0.43	-0.32	+2.84
	Dum-Dum ... ..	+0.10	-1.16	+1.00	-1.93	+1.71	-1.16	+2.69	+0.63	+2.87	-3.10	-0.24	-0.55	-0.12
	Baraset ... ..	-0.64	-1.25	+1.79	-1.78	+0.50	+1.38	+1.31	+1.78	+3.07	-1.65	-0.94	-0.33	+5.39
	Busserhat ... ..	+0.60	-1.09	+3.07	-0.40	+4.74	-3.14	+2.88	+0.29	+0.86	+1.55	-0.06	-0.20	+16.16
HOWRAH	Howrah ... ..	+0.41	-1.32	+0.52	-2.03	+3.70	-2.23	+1.67	-4.31	+3.10	+0.32	-0.29		



DISTRICT.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
EAST BENGAL concluded.														
MYMENSINGH	Kishoregunge	-0.34	-0.92	-0.75	-0.59	-2.04	-8.56	+2.56	+14.95	-1.40	-2.85	-0.34	-0.34	-0.91
	Atia	-0.34	-1.25	-0.05	+0.08	-1.32	-6.37	-2.15	+6.54	+0.10	+0.01	-0.26	-0.10	+4.11
	Mymensingh	-0.34	-1.26	-0.56	-2.63	-2.04	-7.12	-2.83	+3.33	+1.44	-2.56	-0.73	-0.13	-15.18
	Jacalapore	-0.41	-1.18	+0.89	-1.55	-1.86	-7.70	-2.98	-0.31	+8.47	-2.92	-0.25	-0.29	-9.19
NORTH BENGAL.	Netrokoma	Nil	-0.58	-0.26	-1.28	+0.18	+0.24	+0.12	+11.53	-0.49	-5.39	-0.03	-0.23	+3.81
	Pabna	-0.35	-1.15	+0.79	-2.72	+1.09	-5.50	-0.52	+4.59	+4.08	+0.68	-0.23	-0.11	+6.65
PUBNA	Sonjgunge	-0.20	-0.81	+1.05	-1.49	-0.79	-2.38	-1.15	+3.81	+5.02	-3.16	-0.26	+0.20	-0.36
	Shorapore	-0.06	-1.03	-0.16	-0.68	-1.00	+0.26	-0.63	+3.53	+2.88	+2.61	-0.67	-0.24	+6.15
BOGRA	Nowkhilla	-0.31	-0.86	+0.49	-0.24	+3.06	-5.11	-1.35	+8.93	+2.89	-2.33	-0.58	-0.17	+4.43
	Roz-a	-0.41	-0.90	+0.32	-3.02	+0.06	-4.20	-5.34	+4.86	+5.25	-2.10	-0.80	-0.12	-6.40
	Panchibibi	-0.27	-0.35	+0.32	-1.17	+5.14	-0.69	-2.25	+1.59	+11.68	+0.03	-0.92	-0.21	+1.31
RAJSHAHYE	Beaulah	-0.27	-0.95	+0.75	-0.82	+1.10	+1.02	+3.40	+1.35	+4.10	-2.89	-0.28	-0.09	-6.42
	Natore	-0.57	-0.89	+0.41	-1.55	+0.35	-1.59	-2.17	+0.29	+5.31	-1.57	-0.26	-0.12	-2.36
MALDAH	Maldah	-0.03	+0.08	+0.76	-1.37	+0.52	+4.74	+2.26	+1.92	+0.98	+3.10	-0.22	-0.35	+20.79
	Chandpal	-0.39	-0.48	-0.09	-0.83	-1.36	-7.98	+0.61	-4.92	+7.65	-1.47	-0.02	-0.09	-9.37
DINAGPORE	Mohadebporo	-0.13	-0.06	+0.13	-1.10	+1.33	-2.61	+1.64	-1.27	+19.50	+1.55	-0.11	-0.20	+18.89
	Churamon	-0.16	-0.15	+0.16	-0.13	+0.53	-5.65	+4.37	+2.17	+2.99	-1.18	+0.18	-0.20	-2.95
	Raizunge	-0.33	-0.54	-0.22	-1.05	+0.15	-5.61	+2.23	+9.63	+24.65	-1.97	+0.18	-0.13	+27.59
	Dinagpore	-0.26	-0.51	-0.40	-2.14	+8.64	-9.65	-2.59	-0.19	+8.18	-2.39	+0.12	-0.10	-1.31
BUNGPORE	Balooghut	-0.12	-0.01	+1.23	-0.44	+3.16	-3.08	-4.24	-1.17	+12.18	-2.25	-0.02	-0.35	+4.87
	Bhawanigunge (Gyabanda)	-0.31	+0.54	-0.37	-0.92	+4.49	-7.31	-2.57	-1.85	+2.69	-4.66	+0.08	-0.18	-9.77
JULPIGOREE	Rungpore	-0.57	-0.34	+0.96	+0.10	+2.73	-16.39	-3.50	+1.02	+5.61	-3.70	-0.23	-0.10	-9.92
	Kurigram	-0.46	-0.36	+1.29	-1.14	+7.03	-2.69	-2.04	+5.84	+0.35	-0.63	-0.17	-0.37	+12.98
COOCH BEHAR	Bagdogra (Nilphamari)	-0.25	-0.35	-0.79	-2.54	+4.47	-11.38	+0.68	-3.15	+8.03	-2.69	-0.03	-0.12	-7.98
	Julpigoree	-0.45	+0.06	-1.07	-2.33	-1.29	-10.62	+10.32	+1.50	+11.61	-3.93	-0.11	-0.69	+3.69
DARJEELING HILL.	Dinbatta	-0.44	-0.19	+0.54	-0.73	-5.12	-18.87	-0.31	-2.49	+8.59	-2.97	-0.02	0	-22.31
	Cooch Behar	-0.38	-0.24	+0.50	-2.03	-3.07	-11.60	-4.18	-0.37	+9.58	-0.97	+0.33	+0.04	-15.18
	Wickligunge	-0.14	-0.01	+2.41	-2.04	-0.72	-8.58	+9.77	+5.44	+0.00	-2.74	-0.03	+0.03	+5.19
	Matabhanga	-0.24	-0.21	-0.24	-1.11	-3.67	-5.00	+0.02	+5.59	+3.92	-3.72	+0.08	-0.09	-4.97
NORTH BEHAR.	Buxa	-0.64	-0.72	-2.03	-3.76	-4.86	-0.83	+8.36	+22.41	+8.72	-7.78	+2.14	+0.39	+21.31
	Siliguri	-0.06	-0.23	0	+0.38	+1.83	+14.69	+1.50	+21.13	+10.96	-2.04	+0.55	+0.10	+49.02
	Darjeeling	-0.47	-0.72	+0.51	-1.11	+1.72	-3.37	-3.48	+10.75	+1.94	-4.64	+0.34	-0.23	+1.23
PUERNAH	Kaiphong	-0.49	-0.68	-0.16	+0.34	-0.62	-1.82	-5.37	+2.85	-1.66	-3.53	+0.30	-0.34	-10.33
	Kissengunge	-0.37	-0.38	-0.56	-1.23	+2.94	-3.11	+7.19	+13.68	+15.31	-2.09	-0.05	+0.24	+31.57
NORTH BHA- GULFORE.	Arraun	-0.13	-0.41	+0.39	-1.39	+2.68	-1.39	+13.96	+4.94	+8.69	-0.84	-0.05	+0.09	+22.11
	Purneah	-0.08	-0.55	+0.16	-0.85	-0.93	-1.06	+3.21	+13.62	+5.75	-1.36	0	-0.15	+17.76
DURBHUNGA	Maddanore	-0.24	-0.38	-0.24	-0.14	-0.37	+0.66	+2.93	+2.93	+1.38	-0.04	-0.06	-0.07	+6.84
	Soopool	-0.23	-0.16	-0.33	+0.17	+5.41	-1.28	+3.00	+1.43	+0.83	+0.18	-0.03	-0.06	+8.98
MOZUFFERPORE	Tajpore	-0.18	-0.40	-0.25	-0.29	+3.97	+1.22	+6.91	+13.81	+1.95	+6.31	-0.03	-0.05	+32.67
	Durbhunna	-0.11	-0.49	+0.02	+0.13	-0.18	-2.56	+2.01	+7.64	+0.01	+2.41	-0.07	+0.23	+9.80
	Madhubani	-0.66	-0.47	-0.37	-0.24	+1.21	+1.17	+5.63	+0.09	-0.57	-0.91	-0.03	-0.08	+10.77
CHUMPARUN	Sitamari	-0.51	-0.33	+0.61	-1.92	+1.60	-3.78	+3.60	+2.93	+7.31	+1.22	-0.01	+0.15	+11.18
	Mozufferpore	-0.17	-0.49	+0.26	-0.33	+1.58	+0.14	+3.40	+9.65	+5.65	+2.83	-0.08	+0.36	+22.9
	Hajipore	-0.55	-0.46	-0.24	-0.29	+0.43	-2.74	+9.35	+3.32	+4.75	+1.28	-0.14	-0.13	+14.67
SARUN	Motihari	-0.44	-0.22	-0.11	-0.47	+1.78	-3.89	+1.92	+3.08	+4.62	+0.73	-0.08	+0.44	+6.95
	Bettiah	-0.52	-0.47	+0.28	-0.70	+2.02	-3.78	+3.64	+12.07	+1.98	+4.59	-0.01	+1.24	+20.24
SOUTH BEHAR.	Gopalgunge	-0.27	-0.52	-0.06	-0.08	+0.42	-1.37	+8.87	-1.38	+4.47	+1.04	-0.14	+0.39	+11.37
	Sewan	-0.02	-0.49	-0.19	-0.26	+1.0	-2.79	+9.50	+3.10	-0.86	+4.85	+0.09	+0.25	+14.27
	Chuprah	-0.54	-0.32	-0.13	-0.35	+2.24	-0.59	+14.90	+2.55	+1.68	+9.27	-0.02	+0.48	+29.14
SHAHABAD	Buxar	-0.41	-0.35	-0.16	-0.15	-0.17	+3.93	+4.46	-4.87	+3.29	+3.82	-0.12	+0.13	+9.40
	Bahoonah	-0.52	-0.25	+0.24	-0.10	+0.82	+2.32	+4.25	-2.84	+1.19	+5.29	-0.22	+0.09	+10.27
	Sasseram	-0.33	-0.54	+1.23	-7.12	-0.44	+1.15	+3.79	-5.20	+7.93	+4.07	+0.07	+0.01	+11.66
	Arrau	-0.75	-0.55	+0.04	-0.54	-0.05	+0.44	+4.61	+5.03	+6.26	+8.53	-0.21	+0.18	+22.99
GYA	Aurangabad	-0.12	-0.40	+1.57	-0.21	+0.03	+2.87	+1.65	+0.63	+10.55	+6.23	+0.76	-0.17	+23.37
	Gya	-0.29	-0.51	+0.34	-0.33	+0.35	+0.29	+8.73	+4.53	+9.82	+3.34	+0.51	-0.19	+26.01
	Nowada	+0.09	-0.52	+1.38	-0.21	+1.04	+0.20	+2.37	+2.97	+10.52	+6.00	+0.56	-0.25	+24.15
PATNA	Jehanabad	-0.64	+0.05	+0.64	-0.13	-0.04	+0.69	+3.92	+2.51	+11.26	+4.20	-0.13	-0.21	+22.15
	Patna	-0.66	-0.34	+0.07	-0.28	+0.01	-2.03	+11.57	+8.33	+3.96	+2.93	-0.04	-0.04	+23.56
	Dinapore	-0.47	-0.32	+0.11	-0.25	+0.4	-2.39	+14.45	+7.46	+3.53	+5.63	-0.07	-0.05	+28.12
MONGHYE	Behar	-0.24	-0.35	+0.36	-0.22	-0.65	-1.19	+1.59	-0.43	+8.16	+3.36	-0.10	-0.15	+10.14
	Barrh	-0.41	-0.48	-0.21	-0.38	-0.68	-1.50	+6.61	+0.92	+3.38	+0.56	-0.05	-0.06	+8.78
	Beegowernai	-0.38	+0.13	-0.02	-0.38	-0.70	+3.09	-2.16	+0.02	+4.60	+4.86	+0.01	-0.09	+9.60
SOUTH BHA- GULFORE.	Monchyr	-0.24	-0.13	-0.02	-0.07	+1.33	-0.35	+6.02	+0.32	+13.23	+0.93	-0.04	-0.11	+20.88
	Jamui	-0.38	-0.35	+0.43	-0.50	+0.10	+1.90	+5.47	-2.93	+3.61	+6.85	+0.14	-0.09	+13.95
	Bhagulpore	-0.35	-0.04	+0.39	-0.83	+0.21	-1.19	+2.02	-0.27	+17.55	-0.38	+0.14	-0.10	+17.14
SOUTH PER- GUNNS.	Banka	-0.40	-0.27	-0.01	-0.57	+3.55	+3.32	+0.16	-1.39	+7.26	+2.45	+0.09	-0.15	+14.14
	Rajmehar	-0.13	-0.16	+0.55	-1.09	+1.77	+3.18	+2.09	+0.88	+26.41	+0.09	-0.24	-0.06	+33.20
	Godda	-0.26	-0.46	+0.12	-0.34	+2.93	-0.74	+0.67	+3.84	+2.11	+0.64	+0.05	-0.14	+8.43
CHUTIA NAGPORE.	Pakour	-0.15	-0.77	+0.36	-0.33	+2.75	+0.75	+7.25	+4.32	+11.53	+1.69	-0.50	-0.12	+27.19
	Nya Duomka	-0.47	-0.72	+1.44	-0.24	+0.61	+0.12	+4.76	+2.33	+11.15	-1.41	-0.18	-0.24	+17.15
	Deoghur	-0.33	-0.65	+0.10	-0.80	+2.17	+1.38	-0.84	+0.83	+0.86	+0.57	+0.55	-0.18	+9.62
HAZARIBAGH	Jamtara	-0.23	-0.33	+0.09	-0.57	+1.11	+0.88	-0.64	+0.13	+8.70	+7.87	-0.31	-0.17	+16.53
	Pachamba	-0.29	-0.66	+1.59	-0.66	+0.46	-2.20	-1.35	+2.50	+7.41	+4.45	+0.28	-0.19	+11.34
	Hazaribagh	-0.38	-0.78	+1.37	-0.06	+2.12	-1.89	-0.99	-0.58	+1.50	+8.47	+0.50	-0.24	+9.04
LOHARDUGGA	Semtiagurrah	-0.17	-0.57	+1.81	+0.04	+0.15	-3.91	0.91	-1.6	+0.32	+9.34	+0.11	-0.39	+4.36
	Mahadi Hills	-0.33	-0.65	+0.73	-0.04	-1.08	-1.76	-0.24	+0.02	+1.70	+5.69	+0.25	-0.36	+8.23
	Jhoomarab Hill	-0.08	-0.22	+0.38	Nil	-0.50	+3.58	-0.94	-2.45	+4.65	+7.23	+1.65	-0.43	-3.39
SINGBHOOM	Ranchee	-0.48	-1.07	+1.31	-0.50	+2.36	-0.89	-0.58	+1.92	+0.67	+3.34	+0.62	-0.23	+6.98
	Palmow	-0.59	-0.42	+1.64	-0.31	+0.99	+0.38	-5.81	-3.69	+6.13	+6.61	+0.17	-0.33	+4.77
MANBROOM	Chyebassa	-0.11	-0.84	-0.15	-0.44	+1.85	+0.89	-0.50	-8.07	-2.91	+1.85	-0.09	-0.39	-10.69
	Purulia	-0.40	-0.97	+0.14	-0.81	+1.53	-3.34	+1.23	-5.18	+4.90	-0.92	+0.12	-0.28	-3.88
	Goindapore	-0.46	-0.97	-0.22	-0.61	-0.59	-2.37	-1.15	-3.64	+5.31	+4.56	-0.06	-0.21	-6.33

METEOROLOGICAL OFFICE, BENGAL,  
The 14th February 1887.

JOHN ELIOT,  
Meteorological Reporter to the Govt. of Bengal.

## Results of the Meteorological Observations taken at the Alipore Observatory from 6th to 12th February 1887.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 59° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1887.		°		Inches.	°	°		°	°	Inches.	°	%			Inches.	
Feb.	6th	136.3	9.1	29.869	71.1	81.6	20.1	61.5	66.3	0.587	63.5	77	NE by E. SW by S, and variable.	84	Nil	Chiefly clear.
"	7th	139.9	8.5	.865	77.1	82.3	13.6	68.7	68.0	.623	65.2	78	SSW and WNW ...	84	"	Morning cloudy, day and night clear, o.
"	8th	132.8	9.9	.952	68.0	77.9	18.8	59.1	58.9	.380	51.4	58	NNE and variable...	79	"	Clear, d.
"	9th	128.5	7.5	30.031	64.5	72.7	15.4	57.3	54.5	.293	44.4	50	NNE and N ...	143	"	Chiefly clear.
"	10th	131.0	10.3	.122	61.9	72.5	19.8	52.7	51.7	.251	40.3	47	N and NNW ...	110	"	Clear.
"	11th	130.7	10.2	.134	60.4	72.8	25.1	47.7	51.6	.269	42.1	54	NE by N and W by S.	115	"	Clear, d.
"	12th	133.5	10.8	.102	61.4	76.5	28.9	47.6	52.8	.288	43.9	53	W by S and WNW	97	"	Clear, d.

The mean pressure of the seven days	...	Inches.	30.011
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	29.964
The total number of hours of bright sunshine	...	Hours.	66.3
The maximum possible number of hours of sunshine	...	...	78.8
The mean temperature of the seven days	...	°	66.3
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	71.1
The extreme variation of temperature	...	...	34.7
The maximum temperature	...	...	82.3
The highest velocity of the wind in one hour	...	Miles.	12
The highest pressure of wind on one square foot	...	lbs.	...
The mean relative humidity	...	%	60
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	70
The total fall of rain from 6th to 12th February 1887	...	Inches.	Nil.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	0.43
The total fall from 1st January to 12th February 1887	...	...	1.49
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	0.98

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d. dew.

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 14th February 1887.

## Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.														
			AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	
ORISSA.	Pooree ...	Gopalpore ...	29.907	30.047	—	SSW	309	83.2	8th Feb.	64.9	11th Feb.	81.4	69.8	75.6	—	78.8	
	False Point ...	False Point ...	30.039	30.061	+0.002	NE	207	87.4	8th "	52.0	11th "	80.7	65.6	73.2	+1.2	76.7	
	Cuttack ...	Cuttack ...	29.977	30.060	+0.014	NE	45	90.3	6th "	57.8	10th & 11th Feb.	87.2	62.9	75.1	-0.3	74.3	
	Balasore ...	Balasore ...	30.016	30.077	—	NNE	70.9	88.4	8th "	52.5	11th "	82.7	58.3	70.5	—	72.6	
SOUTH-WEST BENGAL.	South-West Midnapore ...	Sangor Island	30.013	30.070	+0.009	NNE	109	79.7	5th, 6th & 9th Feb.	48.6	11th "	78.5	61.7	70.1	-0.8	70.9	
	South 24-Pergunnahs...	Midnapore ...	29.934	30.000	—	N	78.9	87.3	6th & 7th Feb.	45.1	11th "	83.0	55.3	69.2	—	71.9	
	24-Pergunnahs ...	Calcutta ...	30.049	30.071	-0.014	Northerly	106	82.1	8th "	47.7	11th "	78.1	58.4	68.3	-1.3	69.1	
	Howrah ...	Burdwan ...	29.981	30.085	+0.010	N	49.6	83.5	5th "	48.3	11th "	79.9	54.6	67.3	-1.3	68.0	
	Hooghly ...	Bankoora ...	29.749	—	—	NW	14	85.1	5th "	46.8	11th "	79.7	52.9	66.3	—	69.2	
	Beerbhoom ...	Raneegunge ...	29.741	—	—	NW	74.0	84.5	5th "	48.0	11th "	79.7	52.4	66.1	—	68.5	
	West Burdwan ...	Berhampore ...	30.010	30.030	+0.027	N	54.8	79.6	5th, 7th & 8th Feb.	47.1	11th "	76.9	52.5	64.7	-3.1	66.7	
	Moorshedabad ...	Krishnaghar ...	30.017	—	—	NNE	65.8	83.2	8th "	42.9	11th "	79.2	50.4	64.8	—	69.0	
	Nuddea ...	Jessore ...	30.036	30.071	+0.019	Northerly	51.4	83.7	8th "	43.9	11th "	79.8	53.8	69.8	-1.4	70.2	
	Jessore ...	Chittagong ...	29.972	30.066	+0.014	Northerly	62	80.6	8th "	40.2	11th "	78.3	57.4	67.9	-0.7	69.9	
	Khoolna ...	Chittagong Hill Tracts...	Demagiri ...	Observations not received.													
	Chittagong ...	Barrisal ...	30.049	30.053	—	N	86.7	83.3	8th Feb.	48.6	11th "	77.8	58.3	68.1	—	71.0	
	Backergunge ...	Noakholly ...	30.018	30.063	—	NW	62.1	84.5	8th "	43.5	11th "	77.9	56.1	67.0	—	70.1	
	Noakholly ...	Furreedpore ...	30.024	—	—	N	68	74.3	6th "	45.6	11th "	75.4	52.1	62.8	—	70.7	
	Furreedpore ...	Dacca ...	30.042	30.025	+0.028	Southerly	75	82.1	6th to 8th Feb.	47.0	11th "	79.8	53.4	66.6	-2.1	70.6	
Dacca ...	Tipperah ...	30.023	30.059	—	Northerly	71.4	83.4	8th "	45.1	11th "	80.1	53.5	66.8	—	70.4		
Tipperah ...	Mymensingh ...	29.988	—	—	Calm	50	78.4	7th, 8th Feb.	40.2	11th "	74.5	48.4	61.5	—	67.6		
EAST BENGAL.	Mymensingh ...	Bogra ...	29.980	30.046	—	Calm	56.2	79.3	8th "	41.9	11th "	75.9	48.0	61.9	—	69.9	
	Bogra ...	Pubna ...	30.013	30.061	—	N	49.4	79.1	8th "	39.7	11th "	76.9	46.9	61.5	—	67.1	
	Pubna ...	Rajshahye ...	29.974	30.039	—	N	63.7	79.2	7th, 8th Feb.	42.7	11th "	77.1	48.3	62.7	—	68.6	
	Rajshahye ...	Maldah ...	29.903	—	—	NW	39.9	75.2	9th "	38.5	11th "	73.6	47.7	60.7	—	68.8	
	Maldah ...	Dinapore ...	29.925	30.051	—	WSW	65	78.6	8th "	38.9	10th "	75.1	45.6	60.4	—	66.9	
	Dinapore ...	Rungpore ...	29.927	30.057	—	SW	74.1	77.7	9th "	37.0	10th "	74.5	44.8	59.7	—	66.6	
	Rungpore ...	Julpigoree ...	29.757	30.060	—	ESE	67.0	75.9	8th "	36.0	10th "	73.0	44.5	58.8	—	62.4	
	Julpigoree ...	Cooch Behar ...															
	Cooch Behar ...	Darjeeling Hill Districts	Darjeeling ...	22.927	—	+0.018	Variable	101.2	48.3	10th "	21.9	10th "	44.1	29.3	36.7	-1.3	37.0
	Darjeeling Hill Districts	Purneah ...	Purneah ...	29.950	30.053	+0.020	NW	37.8	75.2	6th to 8th Feb.	37.9	11th "	73.5	45.7	59.5	-4.3	65.5
NORTH BENGAL.	Purneah ...	North Bhagulpore ...	Observations suspended.														
	North Bhagulpore ...	Mozufferpore ...	Mozufferpore ...														
	Mozufferpore ...	Durbhunga ...	Durbhunga ...	29.907	30.085	+0.021	WSW	115	74.6	7th Feb.	48.7	10th "	72.3	48.8	60.6	-2.2	69.2
	Durbhunga ...	Chumpara ...	Motihari ...	29.818	30.058	—	WSW	175.1	75.3	7th "	37.2	9th "	72.2	41.8	57.0	—	62.3
	Chumpara ...	Saran ...	Chupra ...	29.875	—	—	WNW	67.7	77.5	8th "	42.7	10th "	74.6	46.8	60.7	—	65.7
	Saran ...	Shahabad ...	Dehree ...	29.718	30.099	—	SSW	90.9	80.9	5th "	46.8	10th "	75.0	49.3	61.4	—	66.3
	Shahabad ...	Buxar ...	Buxar ...	29.837	30.091	—	W & WNW	100.7	79.4	7th Feb.	41.9	10th & 11th Feb.	74.6	45.8	60.2	—	66.2
	Buxar ...	Arrah ...	Arrah ...	29.863	30.071	—	WSW	28.5	78.1	7th "	41.9	10th "	74.1	45.8	60.9	—	65.2
	Arrah ...	Gya ...	Gya ...	29.684	30.080	+0.003	NW	45.3	81.0	5th "	48.4	9th "	76.7	51.4	64.1	-2.3	68.2
	Gya ...	Patna ...	Bankipore ...	29.997	30.101	+0.006	W	69.1	77.7	7th "	43.7	11th "	73.6	47.8	60.7	-2.9	64.1
SOUTH BENGAL.	Patna ...	South Bhagulpore ...	Bhagulpore ...	29.895	30.064	—	W	68	76.4	8th "	43.0	11th "	73.5	48.2	60.9	—	66.5
	South Bhagulpore ...	Monghyr ...	Doomka ...	29.348	—	—	Calm	10.1	79.6	5th "	43.7	11th "	76.3	49.5	62.9	—	65.9
	Monghyr ...	Hazaribagh ...	Hazaribagh ...	28.906	30.082	+0.024	NW	167.4	80.3	5th "	40.9	10th "	73.0	48.1	60.8	-3.0	64.8
	Hazaribagh ...	Lohardugga ...	Ranehee ...	27.871	30.067	—	NW	129.3	80.4	5th "	41.4	10th "	74.2	48.0	61.1	—	64.1
	Lohardugga ...	Manbhoom ...	Chyabassa ...	29.275	—	—	NNE	23.6	83.0	5th "	44.9	11th "	81.0	59.9	65.1	—	70.4
	Manbhoom ...	Singbhoom ...	Singbhoom ...														
	Singbhoom ...																

*Explanation. — Summary.*—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same period for the past ten years. The humidity of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the nine divisional stations for the period in question during the past year. The station in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

\* Mean for 6 days



for the week ending Friday, the 11th February 1887.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.	
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing stations.	RAINFALL.									Average number of rainy days.	Normal number of rainy days.				
			Of week.		Since 1st of month.			Since 15th May 1886.									
			Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
68	1'3	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore	...	ORISSA.		
64	3'3	Nil	Nil	0'18	Nil	0'27	-0'27	61'44	56'15	+5'29	0'0	0'3	False Point	...		SOUTH-WEST BENGAL.	
40	2'6	Nil	Nil	0'13	Nil	0'29	-0'29	64'07	51'98	+12'09	0'0	0'3	Cuttack	...			EAST BENGAL.
47	0'4	Nil	Nil	0'20	Nil	0'45	-0'45	57'84	54'26	+3'59	0'0	0'6	Balasore	...			
62	3'4	Nil	Nil	0'35	Nil	0'69	-0'69	52'18	63'81	-11'63	0'0	0'7	Saugor Island	...	NORTH BENGAL.		
39	0'3	Nil	Nil	0'34	Nil	0'53	-0'53	46'57	52'52	-5'95	0'0	0'5	Midnapore	...		NORTH BENGAL.	
49	1'1	Nil	Nil	0'30	Nil	0'67	-0'67	57'23	52'65	+4'58	0'0	0'8	Calcutta	...			NORTH BENGAL.
30	1'9	Nil	Nil	0'33	Nil	0'56	-0'56	53'07	46'93	+6'14	0'0	0'6	Burdwan	...			
42	0'6	Nil	Nil	0'25	Nil	0'39	-0'39	51'11	51'48	-0'37	0'0	0'6	Bankoora	...	NORTH BENGAL.		
38	0'3	Nil	Nil	0'34	Nil	0'51	-0'51	66'07	52'29	+14'38	0'0	0'8	Raneegunge	...		NORTH BENGAL.	
56	1'4	Nil	Nil	0'29	Nil	0'40	-0'40	60'47	49'39	+11'08	0'0	0'7	Berhampore	...			NORTH BENGAL.
42	2'6	Nil	Nil	0'37	Nil	0'55	-0'55	55'22	49'79	+5'52	0'0	0'7	Krishnagar	...			
54	3'0	Nil	Nil	0'28	Nil	0'51	-0'51	59'37	54'08	+5'29	0'0	0'6	Jessore	...	NORTH BENGAL.		
66	5'1	0'03	0'04	0'21	0'05	0'39	-0'35	129'24	114'05	+15'19	0'5	0'5	Chittagong	...		NORTH BENGAL.	
55	2'4	0'40	0'3	0'23	0'13	0'44	-0'31	77'87	78'45	-0'58	0'5	0'6	Barrisal	...			NORTH BENGAL.
56	1'9	0'41	0'20	0'18	0'20	0'42	-0'22	117'53	109'27	+8'26	0'5	0'4	Noakholly	...			
44	0	Nil	Nil	0'25	N	0'50	-0'50	60'64	56'54	+4'12	0'0	0'6	Furzedpore	...	NORTH BENGAL.		
49	0'3	Nil	Nil	0'27	Nil	0'54	-0'54	76'79	59'01	+17'78	0'0	0'7	Dacca	...		NORTH BENGAL.	
49	2'3	0'04	Nil	0'18	Nil	0'36	-0'36	77'38	71'37	+6'01	0'0	0'6	Commillah	...			NORTH BENGAL.
53	1'9	Nil	Nil	0'22	Nil	0'37	-0'37	67'69	67'85	-0'16	0'0	0'7	Mymensingh	...			
43	1'4	Nil	Nil	0'10	Nil	0'24	-0'24	66'42	56'53	+9'89	0'0	0'5	Bogra	...	NORTH BENGAL.		
51	1'7	Nil	Nil	0'23	Nil	0'36	-0'36	59'76	53'94	+5'82	0'0	0'7	Serajgunge	...		NORTH BENGAL.	
47	1'3	Nil	Nil	0'24	Nil	0'43	-0'43	59'76	54'28	+5'48	0'0	0'8	Rampore Beaulah	...			NORTH BENGAL.
44	0	Nil	Nil	0'12	Nil	0'24	-0'24	62'73	53'75	+8'98	0'0	0'8	Maldah	...			
48	0'9	Nil	Nil	0'16	Nil	0'19	-0'19	74'08	53'90	+20'18	0'0	0'6	Dinapore	...	NORTH BENGAL.		
49	0	Nil	Nil	0'10	Nil	0'15	-0'15	73'83	73'56	+0'27	0'0	0'5	Rungpore	...		NORTH BENGAL.	
64	0'3	Nil	Nil	0'11	0'03	0'13	-0'10	109'80	110'74	-0'94	0'0	0'6	Julpigoree	...			NORTH BENGAL.
77	3'0	Nil	Nil	0'16	Nil	0'22	-0'22	141'53	117'28	+24'25	0'0	0'6	Darjeeling	...			
55	0	Nil	Nil	0'22	Nil	0'31	-0'31	80'15	57'01	+23'14	0'0	0'6	Purneah	...	NORTH BENGAL.		
50	0	Nil	Nil	0'22	Nil	0'29	-0'29	61'11	42'41	+18'70	0'0	0'7	Mozufferpore	...		NORTH BENGAL.	
51	0	Nil	Nil	0'19	Nil	0'27	-0'27	62'03	43'79	+18'24	0'0	0'6	Durbhunga	...			NORTH BENGAL.
47	0	Nil	Nil	0'18	Nil	0'22	-0'22	62'93	41'76	+21'17	0'0	0'5	Chupra	...			
49	0	Nil	Nil	—	—	—	—	—	—	—	—	—	Dehree	...	NORTH BENGAL.		
38	0	Nil	Nil	0'24	Nil	0'34	-0'34	56'22	39'72	+16'50	0'0	0'5	Buxar	...		NORTH BENGAL.	
48	0	Nil	Nil	—	—	—	—	—	—	—	—	—	Arrah	...			NORTH BENGAL.
49	0	Nil	Nil	0'21	Nil	0'31	-0'31	65'81	40'44	+25'37	0'0	0'8	Gya	...			
50	0	Nil	Nil	0'22	Nil	0'31	-0'31	60'99	40'66	+20'33	0'0	0'7	Bankipore	...	NORTH BENGAL.		
47	0	Nil	Nil	0'17	Nil	0'30	-0'30	60'90	42'36	+18'54	0'0	0'6	Bhagulpore	...		NORTH BENGAL.	
60	0	Nil	Nil	0'19	Nil	0'39	-0'39	71'49	40'22	+22'18	0'0	0'6	Doomka	...			NORTH BENGAL.
27	0	Nil	Nil	0'24	Nil	0'31	-0'31	58'74	50'15	+8'59	0'0	0'6	Hazaribagh	...			
38	0	Nil	Nil	0'41	Nil	0'61	-0'61	50'38	47'89	+2'44	0'0	0'9	Ranchee	...	NORTH BENGAL.		
32	1'0	Nil	Nil	0'34	Nil	0'53	-0'53	43'81	52'55	-8'77	0'0	0'5	Chyebassa	...		NORTH BENGAL.	
32	1'0	Nil	Nil	0'34	Nil	0'53	-0'53	43'81	52'55	-8'77	0'0	0'5	Chyebassa	...			NORTH BENGAL.

years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.  
 denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "District observations of rainfall, the normal mean  
 years. The means of the district are the numerical averages of the rainfall return received in the district, i.e., from the total rainfall at the sub-divisional.

## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of February 1887.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1886.	Average rainfall from 15th May to date.
			Saturday, 5th February.	Sunday, 6th February.	Monday, 7th February.	Tuesday, 8th February.	Wednesday, 9th February.	Thursday, 10th February.	Friday, 11th February.	Number of rainy days.	Rainfall of week.				
ORTHERA	Pooree	Pooree	...	...	...	...	...	...	...	Nil	Nil	Nil	0.32	54.89	52.48
		Khurdah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.28	60.06	57.28
		Banpur	...	...	...	...	...	...	...	Nil	Nil	Nil	0.13	66.57	49.75
		False Point	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	58.08	65.37
		Gop	...	...	...	...	...	...	...	Nil	Nil	Nil	?	66.09	?
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	68.36	51.66
		Bunki	...	...	...	...	...	...	...	Nil	Nil	Nil	0.31	60.82	50.07
		Cuttack	...	...	...	...	...	...	...	Nil	Nil	Nil	0.34	73.30	55.93
		Kendrapara	...	...	...	...	...	...	...	Nil	Nil	Nil	0.18	54.86	53.06
		Jaipore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.55	62.95	53.22
		Jharsasalla	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62.45	?
	Balasore	Salipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Chandbali	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	54.91	54.55
		Bhuddruck	...	...	...	...	...	...	...	Nil	Nil	Nil	0.60	56.44	52.56
		Sorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.30	57.73	52.38
		Balasore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.44	62.73	58.53
		Jellapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.57	61.39	52.74
	SOUTH-WEST BENGAL.	Baripodda	...	...	...	...	...	...	...	Nil	Nil	Nil	0.22	53.76	55.55
	Midnapore	Contai	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	41.59	61.02
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	62.89	67.04
		Tumlook	...	...	...	...	...	...	...	Nil	Nil	Nil	0.76	46.10	62.17
		Midnapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	43.97	49.09
		Ghattal	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	49.64	55.63
		Devog	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39.48	?
	24-Pergunnahs	Heria	...	...	...	...	...	...	...	Nil	Nil	Nil	?	47.47	?
		Bhagwanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.50	?
		Garbeta	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49.47	?
		Diamond Har-bour	...	...	...	...	...	...	...	Nil	Nil	Nil	0.74	52.07	66.05
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	58.80	?
		Alipore Jail	...	...	...	...	...	...	...	Nil	Nil	Nil	0.58	58.88	56.15
	Howrah	Barrackpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.79	55.08	50.07
		Dum-Dum	...	...	...	...	...	...	...	Nil	Nil	Nil	0.58	53.41	52.83
		Buraset	...	...	...	...	...	...	...	Nil	Nil	Nil	0.74	58.94	50.94
		Buseerhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.51	63.40	54.56
		Howrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.51	51.93	51.81
		Moheraka (Ooloberiah.)	...	...	...	...	...	...	...	Nil	Nil	Nil	0.67	54.69	63.67
	Hooghly	Serampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.84	57.27	51.40
		Hooghly	...	...	...	...	...	...	...	Nil	Nil	Nil	0.83	54.01	50.92
		Jehanabad	...	...	...	...	...	...	...	Nil	Nil	Nil	0.76	61.52	55.39
	Burdwan	Culina	...	...	...	...	...	...	...	Nil	Nil	Nil	0.50	52.93	44.63
		Burdwan	...	...	...	...	...	...	...	Nil	Nil	Nil	0.52	57.42	45.98
		Culina	...	...	...	...	...	...	...	Nil	Nil	Nil	0.64	48.86	48.04
		Raneegunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.31	60.67	48.67
		Mankur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	62.76	?
	Bankoora	Bankoora	...	...	...	...	...	...	...	Nil	Nil	Nil	0.41	51.83	52.16
		Bishenpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.23	50.48	51.19
		Maliara	...	...	...	...	...	...	...	Nil	Nil	Nil	0.50	58.69	48.71
		Khairi	...	...	...	...	...	...	...	Nil	Nil	Nil	0.24	51.32	57.91
		Indas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	49.28	?
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.71	?
EAST BENGAL.	Beerbhoom	Anda	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39.20	?
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50.85	?
		Karpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	55.88	?
		Sonamukhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	37.90	?
		Bh. Soory	...	...	...	...	...	...	...	Nil	Nil	Nil	0.64	67.99	53.91
		Hetanpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.47	66.77	54.49
	Nuddea	Rampore Haut	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	63.27	51.65
		Botpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	64.65	?
		Ranaghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.15	50.44	47.75
		Kishnaghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.09	49.98	46.48
		Choudanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0.29	54.66	51.87
		Meherpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.57	53.15	47.74
	Khoolna	Koostea	...	...	...	...	...	...	...	Nil	Nil	Nil	0.58	67.55	54.03
		Satkhiria	...	...	...	...	...	...	...	Nil	Nil	Nil	0.46	57.37	56.07
		Bagirhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	77.10	61.94
		Khoolna	...	...	...	...	...	...	...	Nil	Nil	Nil	0.49	47.86	50.50
	Jessore	Narail	...	...	...	...	...	...	...	Nil	Nil	Nil	0.40	51.87	47.60
		Jessore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.54	65.73	53.84
		Jhenidah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	61.30	54.16
		Magoorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0.47	61.71	49.16
		Bongong	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	51.48	52.22
	Moorshedabad	Kandi	...	...	...	...	...	...	...	Nil	Nil	Nil	0.38	52.79	50.10
		Berhampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.61	58.09	50.98
		Lalbagh	...	...	...	...	...	...	...	Nil	Nil	Nil	0.28	61.62	46.59
		Azimungunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.47	62.75	50.94
		Jungipore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.46	68.00	47.17
		Lalgola	...	...	...	...	...	...	...	Nil	Nil	Nil	0.31	58.90	49.91
EAST BENGAL.	Chittagong	Akhrganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?
		Cox's Bazar	...	...	...	...	...	...	...	Nil	Nil	Nil	0.20	135.21	134.75
		Chittagong	...	...	...	...	...	...	...	1	0.09	0.10	0.40	123.27	123.39
		Katubdia	...	...	...	...	...	...	...	Nil	Nil	Nil	?	119.09	?
		Satkanya	...	...	...	...	...	...	...	Nil	Nil	Nil	?	112.05	?
	Chittagong Hill Tracts.	Rangamati	...	...	...	...	...	...	...	Nil	Nil	Nil	0.44	99.07	84.44
		Ruma	...	...	...	...	...	...	...	Nil	Nil	Nil	0.08	85.77	80.28
EAST BENGAL.	Backergunge	Patuakhally	...	...	...	...	...	...	...	1	0.11	0.11	0.58	82.49	88.99
		Perazepore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.54	78.59	70.14
		Burrisal	...	...	...	...	...	...	...	Nil	Nil	Nil	0.38	63.16	60.95
		Bhola	...	...	...	...	...	...	...	Nil	Nil	Nil	0.26	86.74	84.29

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of February 1887—contd.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1896.	Average rainfall from 15th May to date.
			Saturday, 6th February.	Sunday, 6th February.	Monday, 7th February.	Tuesday, 8th February.	Wednesday, 9th February.	Thursday, 10th February.	Friday, 11th February.	Number of rainy days.	Rainfall week.				
EAST BENGAL—contd.	Nonsakhali	Gournaddi Bauphal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.37	?	
		Nonsakhali	Nil	Nil	Nil	0.40	Nil	Nil	Nil	0.40	0.38	111.85	108.92		
		Harishpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	123.16	108.30			
		Ramganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	141.77	?			
	Furzedpore	Madaripore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.38	68.09	56.45			
		Furzedpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	59.43	58.73			
	Dacca	Gonlundo	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.63	54.43	54.55			
		Munshigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.59	95.61	71.12			
		Dacca	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.46	68.07	59.01			
		Narainkunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.70	84.01	54.06			
	Hill Tipperah	Manickkunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	58.85	51.12			
		Joydebpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.53	?			
		Agartola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.46	65.66	62.83			
		Comilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	85.84	77.54			
	Memedinich	Chandpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	88.33	81.35			
		Brahmanberia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.42	69.64	63.42			
		Kamechandra-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65.91	?			
		Nasirnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	54.28	?			
		Daudkandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	73.37	?			
		Kasba	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60.20	?			
		Laksham	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	90.58	?			
		Kishoregunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	74.68	70.54			
	Pubna	Atia (Tangail)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.38	54.79	56.82			
		Mymensingh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	60.00	74.90			
		Jamshinore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.26	61.40	66.14			
		Netrokona	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	78.35	70.30			
		Subornakhally	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.14	?			
		Durgapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?			
		Dewanganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.80	?			
		Pubna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.39	62.06	54.86			
	Rajshahye	Serajgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	57.44	63.04			
		Sherpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	65.75	58.22			
Nowshilla		Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	63.14	53.79				
Bogra		Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.46	66.18	60.39				
Panchbibi		Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	71.61	53.16				
Beaulah		Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.48	61.98	52.90				
Natore		Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	57.51	55.75				
Nowgong		Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.02	?				
Maldah	Lalpor	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.91	?				
	Manda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	56.98	?				
	Maldah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	72.32	59.67				
	Chanchal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	53.12	58.91				
Dinagopore	Gajol	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67.88	?				
	Sibganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65.02	?				
	Mohadebpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	78.38	55.34				
	Churamon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	60.56	50.58				
Kusumapore	Raigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	90.52	53.76				
	Dinagopore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	72.77	62.27				
	Baloorkhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	62.12	47.05				
	Bhawaniungu (Gyabanda)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	55.20	61.83				
Jalpaiguri	Raigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	71.79	74.71				
	Karigram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	86.02	73.43				
	Bagdokra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	82.20	84.29				
	(Nilphamari, Ulipore)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	72.71	?				
Cooch Behar.	Jalpaiguri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	127.87	115.77				
	At-pore Doar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	127.10	?				
	Fallacotta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	99.38	?				
	Debiganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?				
Dumkhat	Dumkhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	82.39	95.54				
	Cooch Behar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	108.26	119.73				
	Mickligunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	115.67	105.15				
	Matabhanga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	114.45	117.20				
Dumkhat	Buxa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	6.30	228.51				
	Siliguri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	146.88	87.52				
	Dumkhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	116.02	109.31				
	Kaimpong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	74.63	89.48				
North Bham.	Kissengunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	197.92	67.34				
	Arrareah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	91.45	61.94				
	Purneah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	83.27	59.89				
	Gondwara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?				
	Balarampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?				
	Mariari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	79.82	?				
	Kailaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?				
	Madadapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	59.53	48.83				
North Bham.	Sopool	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	58.50	47.14				
	Protaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	72.13	?				
	Tajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	74.17	41.61				
	Dumkhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.34	57.31	43.98				
Mouafferpore	Madhubani	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	57.92	43.82				
	Rahera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	68.16	?				
	Rohera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	70.09	?				
	Sithamari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	55.81	41.24				
Mouafferpore	Mouafferpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	67.79	41.67				
	Halpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.38	59.73	41.53				
	Paru	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.09	?				
	Manua	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53.99	?				
	Sunhar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59.27	?				
	Supri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	58.20	?				
	Motihari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	53.94	43.37				
	Bettish	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.2	70.12	48.07				
Mouafferpore	Bagahi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.03	?				
	Burhpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50.50	?				



## Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 11th of February 1887—concl.

Meteorological Station.	District.	Station.	RAINFALL.							TOTAL.		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 1st May, 1886.	Average rainfall from 1st May to date.
			Sunday, 5th February.	Monday, 6th February.	Tuesday, 7th February.	Wednesday, 8th February.	Thursday, 9th February.	Friday, 10th February.	Saturday, 11th February.	Number of rainy days.	of inches fall.				
NORTH BHAR —continued.	Sahib	Gopnigunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	59.95	42.2
		Sewan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	59.91	43.0
SOUTH BHAR	Shahabad	Chunar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	59.92	39.0
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	59.88	39.0
		Dumrae	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	51.05	1.0
		Budhobad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	53.06	40.0
		Nasirabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	53.07	40.0
		Atran	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	58.24	38.0
		Mohania	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	28.30	?
		Surungabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	60.84	41.0
		Gya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	60.98	41.0
		Nowadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.43	65.33	39.0
		Jonaiabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	64.09	39.0
		Arical	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	54.18	?
		Dandnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	54.16	?
		Sherghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60.25	?
		Rajauli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Pakri Barawan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	63.62	?
		Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	65.68	41.0
		Dinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	71.51	40.0
		Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	55.92	41.0
		Barri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	51.23	39.0
		Fickrum	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Hilsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Munshyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.42	62.42	39.0
		Begoober-i	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.27	60.87	45.0
		Munshyr	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	59.88	42.0
		Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.01	?
		Sheikhpura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	63.16	?
		Shankulpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	64.83	41.0
		Banka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	60.44	43.0
		Koingong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.68	?
		Satthal Per- gonahs	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	60.40	40.0
		Kaimenai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	55.32	44.0
		Godua	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	86.02	60.0
		Pakour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	71.07	55.0
		Nya Doonka	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	61.34	50.0
		Deoghur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	63.30	47.0
		Jalilpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	56.94	?
		Simra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Nanhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
CHUTTA "A" FUR.	Hazaribagh	Pachamta (Girdi).	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	60.90	47.0
		Hazaribagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	58.65	48.0
		Semtagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	52.94	43.0
		Mandai Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	58.50	40.0
		Shoomrah Hills	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	61.80	63.0
		Barhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60.38	?
		Chatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	60.75	?
		Karagdeha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59.55	?
		Kamphur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.59	?
		Lohardugga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.28	?
		Kanchi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.73	64.15	52.0
		Painnow	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	51.32	42.0
		Salla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.75	?
		Batmat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.06	?
		Hosetabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Warrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.48	?
		Singbhoon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.53	43.81	52.0
		Chakradhar- pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	57.05	?
		Ghatkilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	56.59	?
		Biharagura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46.28	?
		Wanbhoon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.61	46.03	59.0
		Parulna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.72	49.87	46.0
		Godinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.80	?
		Raghunath- pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Barrabhoon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	57.56	?
		Jhalda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Chas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	59.96	?

Explanation.—In cases where no rain has fallen, the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall column are left blank.

CALCUTTA, the 15th February 1887

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS  
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 11TH OF  
FEBRUARY 1887.**

At the end of the previous week the barometer was considerably below the normal (the deficiency averaging a tenth of an inch for the province), winds were light and unsteady and blowing from the sea in the coast districts, and temperature and humidity were hence considerably above the average. These conditions continued unchanged until the morning of the 7th. The barometer then began to rise, and pressure increased rapidly and continuously during the remainder of the week. The total rise of the barometer during this period varied in amount from  $\cdot 22''$  at Chittagong to  $\cdot 33''$  at Calcutta. Winds reverted to their cold-weather directions, and a rapid fall of temperature ensued, which gave remarkably low night and day temperatures on the 10th and 11th throughout the whole province. The humidity of the air, which was considerably above the average on the 5th and 6th, fell rapidly, and the air became abnormally dry throughout the whole of the province. The fall of temperature was most marked in North Bengal. Lower minimum temperatures were registered in North Bengal on the morning of the 11th than have occurred for many years. Thus at Julpigori the minimum temperature in the shade on the night of the 10th was  $36^{\circ}$ , at Rungpore  $37^{\circ}$ , at Dinagore  $38\cdot 9^{\circ}$ , and it is very probable that out in the open near the ground the temperature in the northern districts of North Bengal fell down to, if not below, freezing point. The minimum in shade thermometer at Darjeeling fell to  $21\cdot 9^{\circ}$  or  $10\cdot 3^{\circ}$  below freezing int on the ponight of the 10th.

The decrease in the humidity was most marked in North Bengal, the northern and central districts of East Bengal and South-West Bengal, and it is hence evident that this great change of atmospheric condition was not due to the transmission of a wave of cold and dry air from Upper India, as the air was warmer and generally moister in Behar and Chutia Nagpur than over the whole of North and Central Bengal. The only explanation appears to be that it was an effect transmitted from the hills to the north of Bengal, and which began as soon as the skies cleared after the recent stormy weather and heavy snowfall in the Himalayas. The weather during the whole week was fine, and during the latter half of the week unusually cool and dry. No rain fell, except one or two light local showers of no importance, in East Bengal.

The barometer oscillated slightly from the 5th to the 7th, and then rose continuously from the 7th to the end of the week. The average amount of the rise in South-West Bengal (where it was greatest) was  $\cdot 31''$ , in Orissa and North Behar  $\cdot 28''$ , in South Behar, Chutia Nagpur, East Bengal, North Bengal, and at Darjeeling  $\cdot 25''$ . The mean pressure of the week is slightly above the normal mean by amounts varying from  $\cdot 01''$  to  $\cdot 04''$ .

Temperature was from  $2^{\circ}$  to  $5^{\circ}$  above the average on the 5th and 6th. It then began to decrease, and was unusually low at the end of the week. The fall was most marked in the night temperature. In North Bengal the minimum temperature in the shade was from  $10^{\circ}$  to  $15^{\circ}$  lower at the end of the week than at the beginning. The minimum temperature of North Bengal on the night of the 10th was  $40\cdot 20^{\circ}$ , of North Behar  $41\cdot 5^{\circ}$ , of South Behar  $45\cdot 4^{\circ}$ , of Hazaribagh in Chutia Nagpur  $41\cdot 9^{\circ}$ , and of South-West Bengal  $49\cdot 7^{\circ}$ .

The mean temperature of the week was  $3\frac{1}{2}^{\circ}$  below the normal mean in Chutia Nagpur and North Behar,  $2\frac{1}{2}^{\circ}$  in South Behar, and  $1\frac{1}{2}^{\circ}$  in East and South-West Bengal. Orissa is the only division in which the temperature and other conditions were practically normal during the week.

The following table gives temperature data for eight representative stations:—

*Table showing the excess or defect of the actual temperature from the normal for the week  
ending 11th February 1887.*

	Normal mean maximum temperature for the week ending 11th February 1887.	Actual mean maximum temperature for the week ending 11th February 1887.	Variation of actual from normal.	Normal mean minimum temperature for the week ending 11th February 1887.	Actual mean minimum temperature for the week ending 11th February 1887.	Variation of actual from normal.	Normal mean daily temperature for the week ending 11th February 1887.	Actual mean daily temperature for the week ending 11th February 1887.	Variation of actual from normal.
Cuttack	88.1	87.2	-0.9	62.7	62.9	+0.2	75.4	75.1	-0.3
Calcutta	81.0	78.1	-2.9	58.2	58.4	+0.2	69.6	68.3	-1.3
Burdwan	80.9	79.9	-1.0	56.4	54.6	-1.8	68.6	67.3	-1.3
Dacca	80.7	79.8	-0.9	56.7	53.4	-3.3	68.7	66.0	-2.7
Burneah	77.4	73.3	-4.1	50.2	45.7	-4.5	63.8	59.5	-4.3
Bankipore	76.1	73.6	-2.5	51.0	47.8	-3.2	63.6	60.7	-2.9
Hazaribagh	76.1	73.6	-2.5	52.8	48.1	-4.7	64.4	60.8	-3.6
Darjeeling	44.7	44.1	-0.6	32.3	29.3	-3.0	38.0	36.7	-1.3

One of the more remarkable features of the meteorology of latter half of the week was the unusual dryness of the air in North and East Bengal. This is shown clearly by the following statement:—

STATION.	Average 10 A.M. humidity, February.	HUMIDITY, 10 AM.	
		10th Febru- ary.	11th Febru- ary.
Dacca	60	22	46
Comilla	60	21	21
Jessore	58	40	38
Furzedpore	58	23	30
Calcutta	64	26	34
Midnapore	42	18	34
Rungpore	60	11	46
Jalpigoree	59	54	49
Dinagopore	52	38	39
Parneah	56	51	55
Patna	53	39	42
Gya	40	31	31
Hazaribagh	38	15	22

The meteorology of the latter half of the week is a direct and remarkable illustration of the after effects of heavy snowfall in the Himalayas on the adjacent plain districts of Northern India.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 11th of February 1887:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1886.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90.3	52.0	83.0	64.2	73.6	+0.5	Nil	0.17	-0.17	0.0	0.4	-0.4	Nil	0.35	61.36	53.93
South-West Bengal	87.3	42.9	79.4	54.7	67.1	-1.6	Nil	0.36	-0.36	0.0	0.7	-0.7	Nil	0.53	56.94	52.44
East Bengal	84.5	40.2	77.4	54.2	65.8	-1.4	0.02	0.22	-0.20	0.1	0.6	-0.5	0.02	0.41	81.73	75.22
North Bengal	79.3	36.0	75.0	45.5	60.8	-	Nil	0.14	-0.14	0.0	0.6	-0.6	0.01	0.22	77.10	69.51
North Bihar	77.5	37.2	73.1	45.8	59.5	-3.3	Nil	0.21	-0.21	0.0	0.6	-0.6	Nil	0.29	67.90	47.47
South Bihar	81.0	41.9	74.6	48.3	61.5	-2.6	Nil	0.20	-0.20	0.0	0.7	-0.7	Nil	0.31	63.71	42.84
Chota Nagpur	80.4*	40.9*	73.9*	48.1*	61.0*	-3.6*	Nil	0.32	-0.32	0.0	0.7	-0.7	Nil	0.45	58.92	49.45

\* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;  
The 15th February 1887.

JOHN ELIOT,  
Meteorological Reporter to the Govt. of Bengal.



**Results of the Thermometrical Observations taken at the Meteorological Office,  
Chowringhee, from 6th to 12th February 1887.**

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1887.		°	°	°	°	°	Inches.	°	%	Inches.
February	6th	71.3	84.4	22.8	61.6	66.7	.595	63.9	78	Nil
"	7th	75.2	84.1	15.0	69.1	69.0	.627	65.4	72	"
"	8th	69.4	80.7	21.3	59.4	62.0	.458	56.5	63	"
"	9th	65.4	74.9	17.3	57.6	53.9	.265	41.8	42	"
"	10th	62.9	74.9	22.7	52.2	51.7	.237	38.8	41	"
"	11th	61.7	75.4	27.5	47.9	53.2	.294	44.5	53	"
"	12th	64.0	78.8	29.3	49.5	54.6	.303	45.2	50	"

The mean temperature of the seven days ... 67.1  
The extreme variation of temperature ... 36.5  
The maximum temperature ... 84.4

The mean relative humidity ... 57  
Inches.

The total fall of rain from 6th to 12th February 1887 ... Nil

The mean temperature and humidity are obtained by applying to the mean of the 10a, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;  
The 14th February 1887.

HENRY F. BLANFORD,  
Meteorological Reporter to the Govt. of India.

## MEMORANDUM.

DURING the week ending 29th January 1887, the returns from the principal Municipalities in Bengal furnished the following results:—

1. That births were registered in the above Municipalities at the rate of 22·3 per 1,000 of population as opposed to very nearly the same proportion, viz. 22·0 per 1,000 in the preceding week ending 22nd January, and deaths at 24·0 against 28·5 per 1,000, indicating a considerable falling off in the record of deaths.

2. That the undermentioned Municipalities returned the highest proportions of births and deaths:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Monghyr	...	43·2	Puri	...	44·1
Durbhanga	...	42·6	Suburbs of Calcutta	...	42·4
Beauleah	...	39·4	Purneah	...	41·5
Comillah	...	38·5	Utterpara	...	37·8
Serampore	...	35·4	Beauleah	...	34·2
			Darjiling	...	32·6
			Burdwan	...	30·5

3. That the mortality from the principal diseases, contrasted with the mortality from the same causes in the preceding week, stood as follows:—

			Ratio per mille during the weeks ending—	
			29th January 1887.	22nd January 1887.
Cholera	...	...	2·3	2·6
Small-pox	...	...	...	...
Fever	...	...	8·7	9·9
Bowel-complaints	...	...	5·5	6·8
Injury	...	...	·2	·2
Other causes	...	...	7·3	9·0

indicating mainly that there was a sensible abatement in the death-rates from fever, bowel-complaints, and the maladies coming under the head of "Other causes."

4. That of the diseases specified above, eliminating small-pox, from which no death was reported, injury, the casualties from which were nowhere large, and fever, which proved conspicuously fatal only in the Beauleah town, viz. at the rate of 28·9 per 1,000 of population, cholera, bowel-complaints, and "Other causes" caused the highest mortality in the following Municipalities:—

<i>Cholera.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Suburbs of Calcutta	7·0	Utterpara	28·3	Puri	29·4
Dacca	3·9	Suburbs of Calcutta	11·4	Purneah	20·7
Gya	2·7			Comillah	15·4
				Gya	15·0
				Suburbs of Calcutta	10·9

5. That the death-rates in relation to *Sex*, *Class* and *Age* stood as indicated below:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	24·0	Christians	21·7	Under 1 year	138·9
Females	23·9	Hindus	23·9	1 and under 5 years	31·8
Ratio of male deaths to every 100 female deaths	114	Mahomedans	21·4	5 " " 10 " "	10·3
				10 " " 15 " "	9·0
				15 " " 20 " "	15·2
				20 " " 30 " "	10·7
				30 " " 40 " "	19·8
				40 " " 50 " "	18·5
				50 " " 60 " "	26·8
				60 years and upwards	89·2

The 14th February 1887.

R. LIDDERDALE, M.D., *Deputy Surgeon-General.*  
*Sanitary Commissioner for Bengal.*

[illegible]

\* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Ages," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to, cannot be employed as a basis of calculation owing to this head not having been secured under the authorized form of age classification.



			13			14			15			16		
			MORTALITY ACCORDING TO—											
			Class.			Age.								
			DEATHS AMONG—			RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS.			RATIO PER 1,000 OF POPULATION PER ANNUM.		
			DEATHS AMONG—			RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS.			RATIO PER 1,000 OF POPULATION PER ANNUM.		
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R. LIDDEDALE, M.D., Deputy Surgeon-General.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

## PUBLIC WORKS DEPARTMENT, BENGAL.

## IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1886-87.  
Areas leased for Irrigation up to end of December 1886.

CIRCLE.	DISTRICT.	CANAL.	Esti- mated full dis- charge.	Average discharge in month.	Discharge utilized.	Approx- imate area of land irrigated during the year up to the end of the month.	Approx- imate area of land under irrigation up to the end of the last year.	DETAILS OF AREAS LEASED.										RAINFALL, 1885-86.		REMARKS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
								Five years, all crops.	Five years, kharreef.	ANNUAL LEASES.					Grand total.	RAINFALL, 1886-87.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										Khar- reef.	Rubbee- can.	Sugar- can.	Bhadol. weather.	Total.		During month.	Up to end of month.	During month.	Up to end of month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
ORISSA.	Cuttack	Taldanda, 1st Reach, 2nd Reach.	1,342 566	..... .....	..... .....	4,240 }	3,813	..... .....	3,976	..... .....	101	15	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... .....	..... 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The 14th February 1887.

A. D. MCARTHUR, Major, R.E.  
Under-Secretary to the Govt. of Bengal.

**PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.**  
**SOUTH-WESTERN CIRCLE.**

**NUDDEA RIVERS.**

*Statement showing Quantities of Goods carried during the month of December 1886.*

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
541	1. Grain ...	589	4,782	5,371	2,27,046	5,371	2,27,046	* Only 2 mds. passed (up) on Bhagiruthy at Jungipore.
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....	
178	3. Oilseeds ...	68	1,783	1,851	1,65,471	1,851	1,65,471	
447	4. Salt ...	2,202	.....	2,202	1,65,094	2,202	1,65,094	
1	5. Piece-goods* ...	.....	.....	.....	1,500	.....	1,500	
23	6. Metal ...	66	7	73	24,328	73	24,328	
30	7. Building materials ...	127	179	306	3,870	306	3,870	
1,030	8. Miscellaneous ...	1,153	6,296	7,449	13,24,697	7,449	13,24,697	
85	9. Fuel ...	746	178	924	9,784	924	9,784	
85 rafts	10. Timber ...	116 c. ft.	8,685 c. ft.	8,801 c. ft.	41,915	8,801 c. ft.	41,915	
5 „	11. Bamboos ...	.....	4,331 „	4,331 „	347	4,331 „	347	
2,335 & 90 rafts	12. Total ...	4,951 & 116 c. ft.	13,225 & 13,016 c. ft.	18,176 & 13,132 c. ft.	19,64,052	18,176 & 13,132 c. ft.	19,64,052	* Only 2 mds. passed (up) on Bhagiruthy at Jungipore.
4,136 & 227 rafts	13. Total of same month last year ...	.....	.....	17,475	19,28,662	17,475	19,28,662	
14. Total number of boats plying cargo	No.	1,005	1,330	2,335	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 11,147 3 6	
14a. Empty boats and steamers, &c.	.....	576	87	663	Total tollage of same month last year ...		10,952 15 0	
15. Total number of boats plying passenger	No.	581	739	1,320	Memorandum of Tollage.			
16. Total registered tonnage, cargo	.....	3,32,707	4,95,913	8,28,620				
17. Total registered tonnage, passenger	.....	310	190	500				
18. Ton mileage	.....	.....	.....	.....			Rs. A. P.	
19. Estimated value of cargo	.....	5,10,993	14,10,797	19,21,790	1. Balance not recovered on the 1st of the month ...		535 12 3	
20. Number of passengers	.....	957	1,065	2,022	2. Tollage per month ...		11,147 3 6	
21. Rafts, bamboos	c. ft.	.....	4,331	4,331	3. Total ...		11,682 15 9	
22. Do., bullahs	„	116	8,685	8,801	4. Amount paid into treasury during the month ...		10,707 4 6	
23. Estimated value of rafts	.....	185	42,077	42,262	5. Balance due at the end of the month ...		975 11 3	
24. Tollage on boats	Rs.	4,051-1-6	6,653-7-6	10,704-9-0				
25. Compounded tollage on boats	Rs.	.....	.....	.....				
26. Tollage on rafts	„	1-2-0	441-8-6	442-10-6				
27. Total tollage on boats per ton-mile	.....	.....	.....	.....				
28. Ditto on rafts per 100 c. ft.	.....	.....	.....	.....				

Calcutta,  
The 15th February 1887. }

A. D. McARTHUR, Major, R.E.,  
Under-Secretary to the Government of Bengal.



## CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 12th February 1887,  
compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 12TH FEBRUARY 1887.			WEEK ENDING SATURDAY, THE 13TH FEBRUARY 1886.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ... ..	1,878	3,59,275	6,344	1,630	3,27,024	5,798
Jute ... ..	117	76,904	1,456	80	58,025	972
Firewood ... ..	59	94,180	1,259	212	98,75	1,421
Other articles ... ..	1,140	2,62,622	4,135	1,034	2,48,959	3,627
Total ... ..	3,294	7,92,981	13,194	2,956	7,32,183	11,818

## EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks 6 days ending 31st December 1886, as compared with the same period of 1885.

STAPLES.	1886.		1885.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING, FOR SALE.	No.		No.		No.		No.	
Horses, ponies, and mules	196	3,024	374	8,136	178	5,112		
Cattle	26	355	12	51	14	304		
Sheep and goats	3,209	2,800	4,078	3,405	869	599		
Other kinds	150	5						
Borax	1,405	853	1,400	1,100	5			
Ones and rattans	147	320	205	335	58	253		
Caoutchouc (Indian-rubber)	20	19	15	15	5	38		
Chinese and Japanese ware	49	64	50	62	1			
Coal and coke, up	6,11,907	2,39,400	5,24,507	1,93,320	87,400	46,080		
Do., down	19,80,578	2,75,190	21,20,858	2,95,116	1,40,280	19,920		
Cotton, raw	4,25,498	3,42,318	2,35,761	2,25,024	1,89,737	1,17,194		
Twist and yarn (European)	8,159	11,071	8,269	11,125	110	54		
Do., (Indian)	17,871	12,099	18,248	12,179	377	80		
COTTON, MANUFACTURED.								
Piece-goods (European)	1,31,853	1,47,594	1,56,037	1,49,060	24,184	1,466		
Do., (Indian)	24,798	17,363	23,484	16,701	1,314	682		
Asafetida	448	387	1,087	680	639	335		
DRUGS AND MEDICINES.								
Other sorts, not intoxicating	1,616	2,298	1,632	2,346	14	48		
Intoxicating drugs (other than opium, i.e., arsenic, blang, gajja, and churus, &c.)	921	439	1,009	1,612	988	1,173		
Indigo	95,888	1,12,783	69,104	82,044	26,784	30,739		
DYEING MATERIALS.								
Madder or manjit	45	55	155	52	110	17		
Safflower	407	149	222	193	185	44		
Turneric	14,339	18,803	12,898	15,464	1,432	3,429		
Other kinds	8,694	5,16	10,075	9,628	1,381	4,467		
Earthenware and porcelain	645	1,204	599	1,202	46			
Do., raw	8,244	764	11,800	4,400	3,556	3,636		
FIBROUS PRODUCTS.								
Do., manufactured (gunny bags and cloths)	91,288	42,237	72,862	39,461	18,426	2,836		
Other fibres, raw	16,244	14,281	3,994	1,544	12,250	12,737		
Do., manufactured	2,465	1,057	1,933	933	532	124		
FRUITS & NUTS								
Cocoanuts	5,833	6,415	7,243	8,157	1,410	1,772		
All other kinds	62,845	47,307	88,332	49,839	25,487	1,842		
When	8,21,528	2,25,331	4,08,598	85,571	4,12,590	1,40,560		
GRAIN & PULSES								
Gram and pulses	3,30,172	84,511	2,73,072	1,07,301	57,100	22,790		
Rice, husked	8,91,932	1,92,285	6,99,862	1,15,105	1,91,127	7,780		
Do., unhusked	36,741	7,847	44,281	7,477	7,540			
Other rain and spring crops	3,15,156	57,348	2,21,946	49,408	93,810	7,880		
Gums and resins	5,444	2,769	8,305	3,840	2,871	1,071		
HIDES & SKINS								
Hides of cattle	1,07,722	65,585	1,06,349	66,087	1,373	544		
Skins of sheep, goats, and small animals	12,717	6,994	15,171	7,946	2,454	952		
Horns	1,797	1,229	1,854	900	329	57		
LAC								
Lac dye	376	185	369	184	7	19		
Do, shell	20,265	14,292	20,622	14,273	343			
Do, stick and other kinds	33,137	8,553	27,797	8,973	5,940	120		
LEATHER								
Leather, unmanufactured	1,267	5,161	1,702	3,856	1,305			
Do., manufactured	4,113	5,651	2,930	4,558	1,183			
Liquors	23,600	25,188	28,415	18,869	6,319	5,055		
Mats	214	345	604	364	390	90		
METALS AND MANUFACTURES								
Brass and copper	40,194	30,725	38,149	31,819	1,945	1,094		
Iron	1,15,468	65,720	98,730	61,946	16,738	1,774		
Other metals	10,774	9,598	10,161	11,368	613	1,970		
OP	35,263	10,164	28,198	19,384	7,965	320		
Opium	86,859	88,055	55,014	55,021	31,836	93,914		
Paints and colours	2,619	2,801	2,741	2,953	332	152		
PROVISIONS								
Ghee	82,545	31,268	20,951	26,396	2,594	4,962		
Other kinds	6,894	6,911	6,777	6,744	167	473		
Railway materials, Construction Account	1,59,069	4,158	2,35,050	8,575	75,041	4,417		
Do., ditto, Foreign	1,43,518	1,01,372	1,58,681	1,25,138	15,163	23,766		
Salt	6,94,735	1,36,562	6,05,375	1,37,349	59,420	797		
SALTPETRE, &c.								
Saltpetre	67,600	27,350	59,736	22,282	16,824	5,068		
Other saline substances	13,154	2,734	21,138	4,683	7,984	1,888		
SEEDS								
Oil-seeds	2,61,944	71,130	1,39,983	44,120	1,21,060	27,010		
Mustard and rape	1,52,026	31,146	87,336	20,946	64,990	10,200		
Til or gingelly	27,511	4,314	22,951	4,154	4,560	160		
Other oilseeds	83,900	21,484	1,15,549	35,944	31,640	14,460		
OTHER SEEDS								
Indigo seed	54,619	17,443	29,509	8,773	25,110	8,670		
Tea seed	125	71	104	4	26			
Other kinds	41,440	15,263	38,300	11,903	3,140	3,270		
SILK								
Silk, raw	2,259	1,791	1,522	1,626	737	165		
Do., manufactured (European)	53	186	62	200	47	14		
Do., ditto (Indian)	630	610	772	714	82	98		
Spices	10,740	5,976	13,202	6,386	2,446	410		
Stone and marble	1,01,118	14,479	76,193	12,061	24,925	2,418		
SUGAR								
Sugar, refined	88,582	28,092	1,14,060	29,509	1,187	26,478		
Do., unrefined	3,72,839	67,512	2,00,644	58,309	1,72,196	9,203		
Tea, Indian	5,847	4,341	5,626	8,517	221	4,176		
Do., Foreign	17	6	408	15	391	9		
Tobacco	47,393	21,499	33,553	16,805	13,816	4,694		
WOOD								
Timber	20,672	5,203	24,681	5,789	4,009	586		
Firewood	59,022	3,667	31,775	1,824	27,247	1,843		
Wool, raw	2,182	2,006	1,701	1,413	481	593		
Do., manufactured (European)	502	1,305	511	1,313	9	8		
Wool, manufactured (Indian)	2,326	2,759	2,127	2,016	199	743		
Shawls								
All other articles of merchandise	3,62,766	2,43,524	3,55,494	2,39,024	7,272	4,500		
Government stores	14,732	22,705	26,113	37,815	11,381	13,110		
Minerals	83,050	15,584	61,925	14,982	21,134	602		
Total	92,92,841	31,42,329	79,39,188	27,05,398	17,25,765	5,71,943	3,72,112	1,34,952

N. ST. L. CARTER,  
Traffic Manager.

TRAFFIC MANAGER'S OFFICE, JAMALPUR, the 9th February 1887.

*General remarks on the fluctuation of principal staples carried over the East Indian Railway during month ended 31st December 1886.*

INCREASES.

*Coal and coke.*—There was an increase in the up and a decrease in the downward traffic; the increase was principally due to demands from Foreign Railways, and the downward decrease was due in a great measure to the mines not having entirely got rid of the rain water which flooded them during the monsoon.

*Cotton.*—This increase was chiefly due, as during the early part of the present season, to a good demand for export.

*Indigo.*—The increase in this commodity is attributable to a larger quantity having been disposed of in Calcutta than during the corresponding period of 1885.

*Other fibres, raw.*—Due to the development of the new trade in flax and hemp despatched from the North-Western Provinces to Calcutta.

*Wheat.*—This increase was due to the rise in the home market.

*Rice (husked and unhusked).*—Continuation of the favourable market referred to in the report for November led to the increase in this staple.

*Other rain and spring crops.*—The increase under this head was chiefly due to increased despatches from Cawnpore and *via* Cawnpore to Rajputana and Western India and from Barh to Howrah.

*Iron.*—The increase was principally in short lead traffic.

*Opium.*—This drug is carried as found convenient to Government.

*Saltpetre.*—The favourable state of the Calcutta market accounts for the increase in this staple.

*Seeds.*—The increase was chiefly in linseed, mustard seed and indigo seed, and may be ascribed principally to demand in Calcutta in the case of the two former staples.

*Sugar, refined and unrefined.*—There was a large increase in the weight of unrefined sugar carried during the period, but the increase in earnings was not in proportion owing to the traffic being to a great extent from stations on the Oudh and Rohilkund Railway to Rajputana, and so having a short lead only over this Railway.

*Tobacco.*—This increase is attributable chiefly to demand in the Central Provinces.

DECREASES.

*Gram and Pulses.*—There was an increase in weight, but a decrease in earnings from the traffic in these staples, and this was due to a large share of the traffic during the current period having been sent to Howrah from riverside stations, Mokameh Digha, &c, instead of, as during last year, from Delhi and the North-West stations.

*Railway Material, Foreign.*—This decrease was almost entirely due to the requirements in material for the Benares Bridge having been completed.

*Salt.*—There was an increase in weight attended with a slight decrease in the earnings, and this is due to the large reduction brought into force in 1886.

*Government stores.*—Due to the Camp of Exercise held at Delhi in 1885.

TRAFFIC MANAGER'S OFFICE, JAMALPUR, the 9th February 1887.

N. ST. L. CARTER, Traffic Manager.



## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 5th February 1887, on 1,515 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	248,242	3,00,657 3 0	26,13,765 30	6,82,041 14 0	19,563 10 0	10,02,262 11 0	67,128½	111,737½	178,866½
Or per mile of railway	.....	198 7 3	.....	450 3 1	12 14 7	661 8 11	.....	.....	.....
For previous 4 weeks of half-year	954,403	11,22,178 8 0	1,07,41,417 20	26,85,947 13 6	76,082 11 0	38,84,210 0 6	271,973	445,200	717,173
Total for 5 weeks	1,202,645	14,22,835 11 0	1,33,55,183 10	33,67,989 11 6	95,647 5 6	48,86,472 11 6	339,101½	556,937½	896,039½
COMPARISON.									
Total for corresponding week of previous year	249,070½	2,89,646 7 10	24,77,594 20	6,71,287 11 0	19,906 3 2	9,80,840 6 0	67,162	108,958	176,120
Per mile of railway corresponding week of previous year	.....	191 3 0	.....	443 1 6	13 2 3	647 6 9	.....	.....	.....
Total to corresponding date of previous year	1,137,862½	13,90,897 5 8	1,38,00,740 0	35,98,089 4 9	1,22,871 10 2	51,11,868 4 7	359,473	577,111	936,584

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH FEBRUARY 1886.			RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 6TH FEBRUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH FEBRUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,515	9,80,840	647	1,515	10,02,263	662	1,515	3,95,13,771	26,082	1,515	3,92,23,238	25,890	.....	2,90,533

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 5th February 1887, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,069	7,051 0 0	42,106 30	2,935 2 0	32 9 0	10,018 11 0	1,800	708	2,508
Or per mile of railway	228½	123 4 4	736 10	51 5 0	0 9 1	176 3 5	.....	.....	.....
For previous 4 weeks of half-year	47,334	23,905 10 0	1,73,514 20	11,870 3 0	136 5 0	35,912 2 0	7,632	2,886	9,518
Total for 5 weeks	60,394	30,956 10 0	2,15,621 10	14,805 5 0	168 14 0	45,930 13 0	8,832	3,594	12,426
COMPARISON.									
Total for corresponding week of previous year	10,132½	5,154 10 7	32,530 0	2,600 4 0	42 7 9	7,797 6 4	1,803	917	2,720
Per mile of railway corresponding week of previous year	177	89 1 10	568 30	45 7 4	0 11 11	136 5 1	.....	.....	.....
Total to corresponding date of previous year	59,843	31,268 14 10	2,38,508 0	13,046 13 0	335 1 0	44,656 12 10	10,024	4,131	14,155

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH FEBRUARY 1886.			RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 6TH FEBRUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH FEBRUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,797	136	57½	10,019	175	57½	4,14,845	7,253	57½	4,56,203*	7,976	41,363	.....

\* Added Rs. 7,860 on account of difference between the approximate and audited figures from 25th November to 31st December 1886.

## DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 5th February 1887, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,678	479 3 0	23,018 0	691 12 6	10 0 0	1,171 15 6	318½	143	493½
Or per mile of railway	.....	39 2 11	.....	57 10 4	0 13 4	97 10 7	.....	.....	.....
For previous 4 weeks of half-year	10,610	1,790 2 0	73,059 0	1,788 7 0	38 10 0	3,617 3 6	1,425½	621	2,044½
Total for 5 weeks	13,288	2,269 5 0	97,877 0	2,480 3 0	48 10 0	4,789 2 0	1,772	766	2,538
COMPARISON.									
Total for corresponding week of previous year	2,976½	486 13 4	11,385 0	284 5 0	19 8 6	790 10 10	183	724	907
Per mile of railway corresponding week of previous year	.....	40 9 1	.....	23 11 1	1 10 1	65 14 3	.....	.....	.....
Total to corresponding date of previous year	13,145½	2,197 14 7	1,24,268 10	2,651 10 0	126 12 6	4,976 5 1	920	1,565	2,485

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1886.			RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 5TH FEBRUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH FEBRUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
12	Rs. 701	Rs. 66	12	Rs. 1,172	Rs. 98	12	Rs. 39,263	Rs. 3,272	12	Rs. 40,095*	Rs. 3,341	Rs. 833	.....

\* Deducted Rs. 9 on account of difference between the approximate and audited figures from 28th November to 31st December 1886.

## SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 5th February 1887, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	5,722	5,065 9 0	1,07,854 30	5,368 15 0	144 12 0	10,580 4 0	888	1,228½	2,116½
Or per mile of railway	.....	67 11 0	.....	71 12 5	1 15 0	141 7 2	.....	.....	.....
For previous 4 weeks of half-year	21,024	16,372 15 0	4,96,275 0	24,619 13 0	594 5 0	41,587 1 0	3,012	4,827	7,839
Total for 5 weeks	27,646	21,439 8 0	5,93,129 30	29,988 12 0	739 1 0	52,167 5 0	3,900	6,055½	9,955½
COMPARISON.									
Total for corresponding week of previous year	5,312½	4,073 6 2	1,26,179 20	3,070 3 0	106 15 3	7,230 8 5	1,513	1,104	2,617
Per mile of railway corresponding week of previous year	.....	54 7 4	.....	41 0 0	1 6 10	96 14 11	.....	.....	.....
Total to corresponding date of previous year	27,275½	22,181 2 2	5,04,639 10	17,149 9 0	701 6 9	40,032 2 5	7,990	6,459	14,449

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1886.			RECEIPTS FOR WEEK ENDING 5TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1885 TO 5TH FEBRUARY 1886.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH FEBRUARY 1887.			Total increase in 1887.	Total decrease in 1887.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
74½	Rs. 7,251	Rs. 97	74½	Rs. 10,580	Rs. 141	74½	Rs. 3,05,800	Rs. 4,080	74½	Rs. 3,36,718*	Rs. 4,562	Rs. 30,859	.....

\* Added Rs. 695 on account of difference between the approximate and audited figures from 28th November to 31st December 1886.